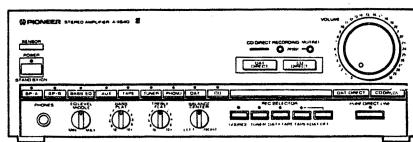




Service Manual



ORDER NO.
ARP1577

STEREO AMPLIFIER

A-X540

A-X440

A-X340

MODELS A-X540, A-X440 AND A-X340 HAVE FOUR VERSIONS:

Type	Applicable model			Power requirement	Export destination
	A-X540	A-X440	A-X340		
HE	○	○	○	AC220V,240V (switchable)	European continent
HB	○	○	○	AC220V,240V (switchable)	United Kingdom
HEZ	○	○	○	AC220V,240V (switchable)	West Germany
SD	○	○	—	AC110V,120V-127V,220V,240V (switchable)	Kingdom of Saudi Arabia and general market

- This service manual is applicable to the HE and HB types.
- For the HB type, refer to page 48.
- For the other types, refer to additional service manual.

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3. SCHEMATIC DIAGRAM AND P.C.BOARDS CONNECTION DIAGRAM	7	7. SPECIFICATION	53
4. ELECTRICAL PARTS LIST	40		

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.

PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada

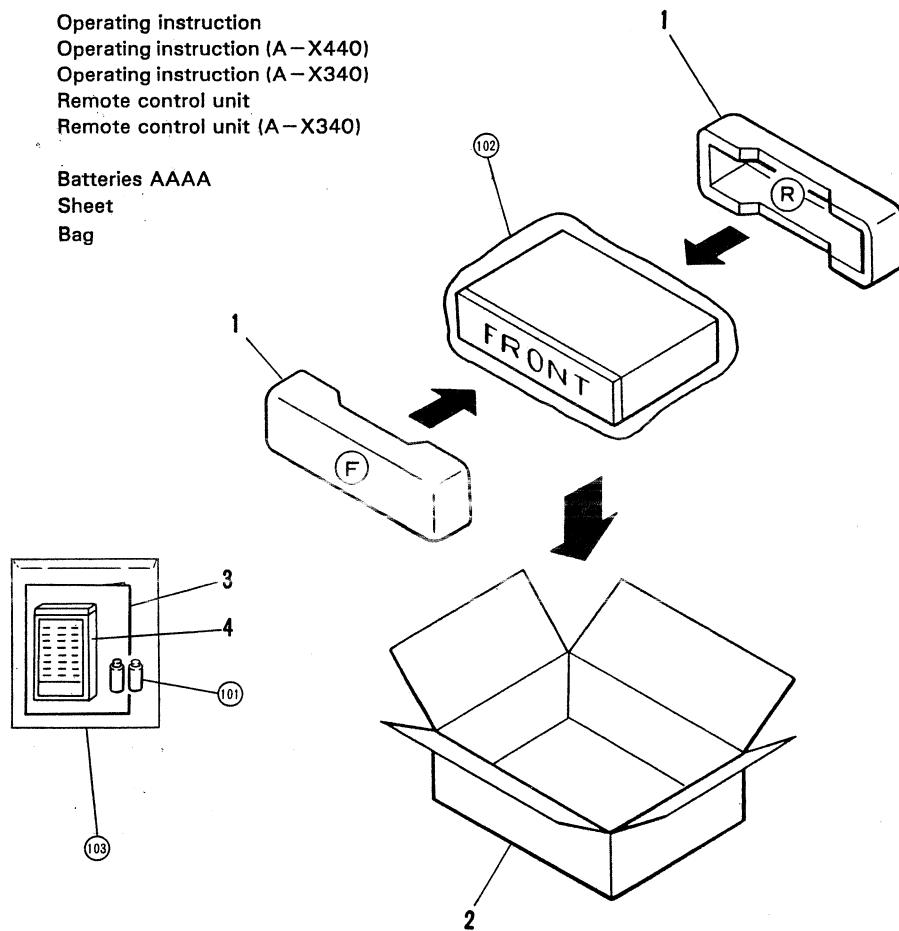
PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium

PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

YA © MAY. 1988 Printed in Japan

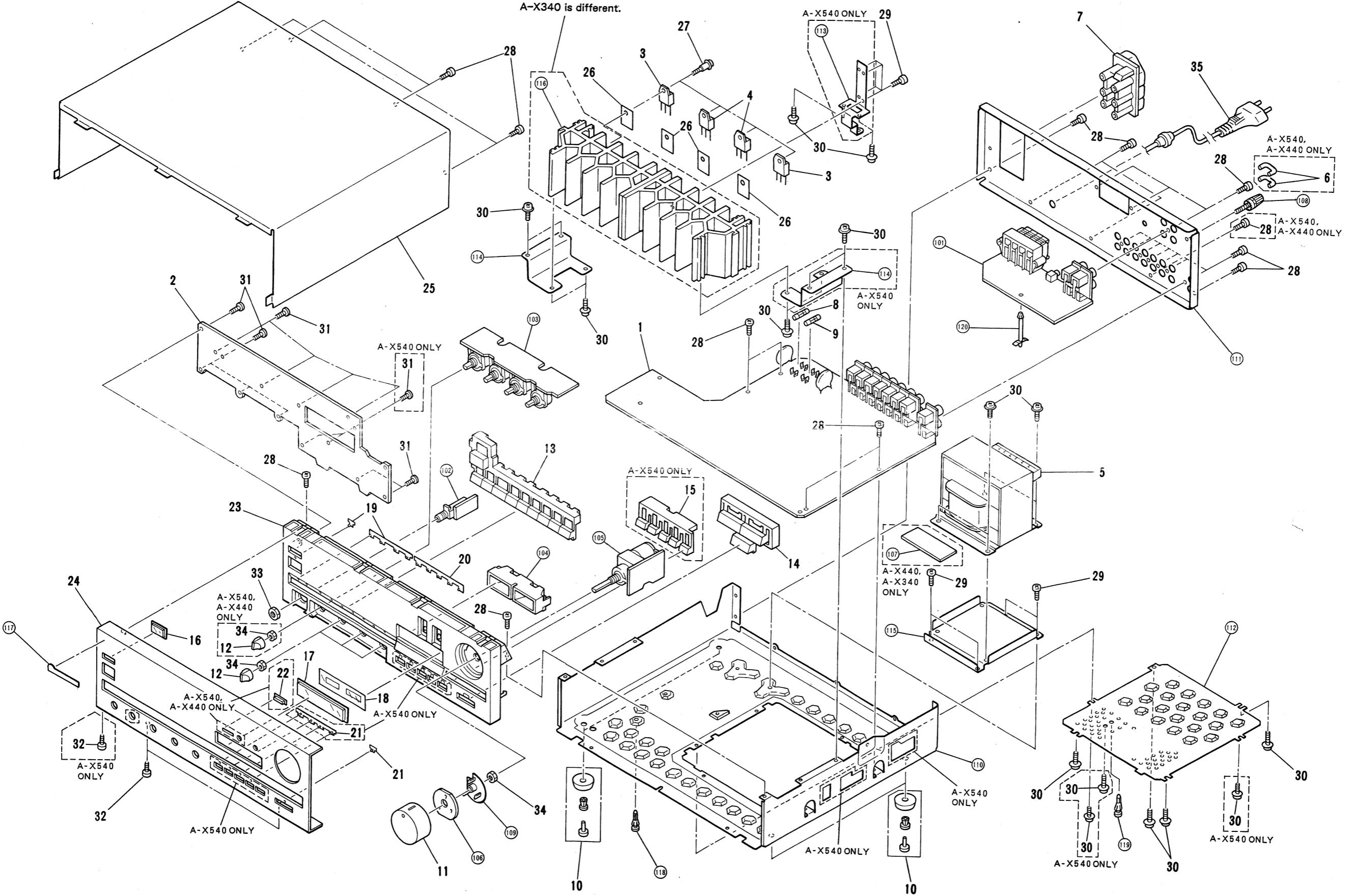
1. PACKING

Mark	No.	Parts No.	Description
1	AHA1069		Pad
2	AHD1414		Packing case
	AHD1415		Packing case (A-X440)
	AHD1416		Packing case (A-X340)
3	ARE1080		Operating instruction
	ARE1081		Operating instruction (A-X440)
	ARE1082		Operating instruction (A-X340)
4	AXD1053		Remote control unit
	AXD1052		Remote control unit (A-X340)
101			Batteries AAAA
102			Sheet
103			Bag



2. EXPLODED VIEWS AND PARTS LIST

The configuration of A-440 and A-X340 is different.



NOTES:

- *Parts with*
- *The Δ mu factor of t_1 tion.*
- *For your P and \star .*
- **★★ GENI**
*This classi
number, t_1*
- *Parts mari
than usual*

Parts List

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NOTES:

- Parts without part number cannot be supplied.
- The **△** mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks **★★** and **★**.
- **★★ GENERALLY MOVES FASTER THAN★**
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts marked by **◎** are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

A

Parts List

Mark	No.	Parts No.	Description	Mark	No.	Parts No.	Description
	1	AWZ1770	AF main assembly		14	AAD1384	Direct knob (DAT DIRECT, CD DIRECT, PURE DIRECT LINE)
		AWZ1777	AF main assembly (A-X440)			AAD1385	Direct knob (A-X340)
	2	AWZ1781	AF main assembly (A-X340)				
	2	AWZ1772	Control main assembly		15	AAD1386	REC SELECTOR knob (SOURCE, TUNER, DAT ▶ TAPE, TAPE ▶ DAT, OFF)
		AWZ1779	Control main assembly (A-X440)		16	AAK1333	Sencer acrylic lens
		AWZ1782	Control main assembly (A-X340)		17	AAK1473	Lamp panel
★★	3	2SA1302	Transistor (Q3,Q4)		18	AAK1474	Lamp panel (A-X340)
		2SA1264N	Transistor (Q3,Q4) (A-X440)		18	AAK1475	Display seat
★★	4	2SA1263N	Transistor (Q3,Q4) (A-X340)		19	AAK1476	Display seat (A-X340)
★★	4	2SC3281	Transistor (Q1,Q2)		19	AAK1482	Indicator lens L
		2SC3181N	Transistor (Q1,Q2) (A-X440)		19	AAK1483	Indicator lens L (A-X340)
		2SC3180N	Transistor (Q1,Q2) (A-X340)		20	AAK1484	Indicator lens R
△ ★	5	ATS1141	Power transformer (220V/240V,T1)		21	AAK1485	Indicator lens A
		ATS1142	Power transformer (220V/240V,T1) (A-X440)		21	AAK1486	Indicator lens A (A-X440, A-X340)
		ATS1143	Power transformer (220V/240V,T1) (A-X340)		22	AAK1487	DIRECT REC lens
C	6	AKM1019	Jumper plug		23	AMB1397	Panel base
		AKM1004	Jumper plug (A-X440, A-X340)		23	AMB1398	Panel base (A-X440)
					23	AMB1399	Panel base (A-X340)
△	7	AKP-502	AC socket (3P,AC OUTLET)		24	ANB1226	Front panel
△★	8	AEK-403	Fuse (T2.5A/250V,FU1)		24	ANB1227	Front panel (A-X440)
△★★	9	AEK-403	Fuse (T2.5A/250V,FU2)		24	ANB1228	Front panel (A-X340)
		AEK-017	Fuse (T2A/250V, FU2) (A-X440)		25	AZN1802	Bonnet cover
		AEK-018	Fuse (T1.25A/250V, FU2) (A-X340)		25	AZN1748	Bonnet cover (A-X440, A-X340)
	10	AMR1285	Leg assembly		26	AEE1014	Mica sheet
	11	AAB1044	Rotary knob (VOLUME)		26	AEC-818	Mica sheet (A-X440, A-X340)
		AAB1081	Rotary knob (VOLUME) (A-X440)		27	ABA-297	Screw
		AAB1082	Rotary knob (VOLUME) (A-X340)		28	ABA-298	Screw
D	12	AAB1070	Rotary knob (BASS EQ LEVEL, BASS, TREBLE, BALANCE)		29	ABA1009	Screw
	13	AAD1382	Function knob (STAND-BY/ON, SP-A, SP-B, BASS EQ, AUX, TAPE, TUNER, PHONO, DAT, CD)	△	30	ABA1011	Screw
		AAD1383	Function knob (A-X340)		31	BBZ26P080FMC	Screw
					32	BBZ30P080FZK	Screw
					33	ABN-065	Nut
					34	NK90FUC	Nut
					35	ADG1021	AC power cord

Mark	No.	Parts No.	Description
	101		SP assembly
	102		HEADPHONE assembly
	103		TONE assembly
	104		LAMP assembly
	105		VR assembly
	106		LED assembly
	107		CONNECTOR assembly
	108		Terminal (GND)
	109		VOL PCB holder
	110		Chassis

111		Rear panel
112		Bottom plate
113		Heat sink holder A
114		Heat sink holder B
115		Trans holder
116		Heat sink
117		Name plate
118		Spacer
119		PCB spacer
120		PCB spacer

Line voltage selection (HE, HB TYPES)

Line voltage can be changed with following steps.

1. Descomment the AC power cord.
2. Remove the top cover.
3. Change the connection wire (To Power transformer) of Terminal No. 3 (White) as follows.

Voltage	Terminal No. 3	Terminal No. 5
220V	White	.....
240V	.....	White

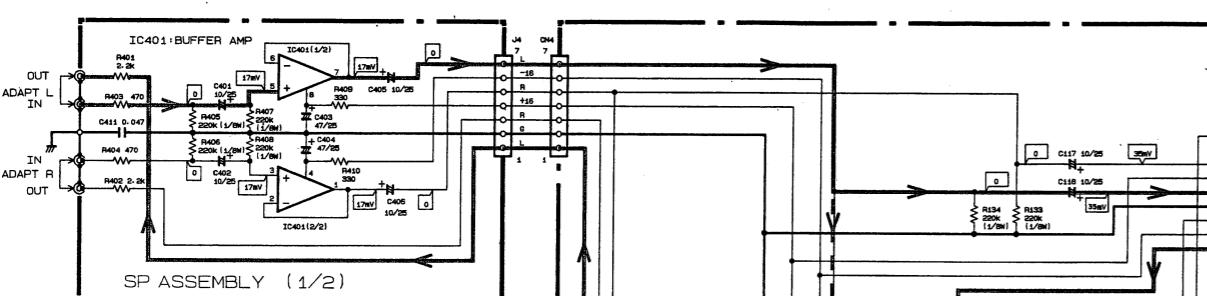
4. Stick the voltage level on the rear panel.

Part No.	Description
AAX-193	220V level
AAX-192	240V level

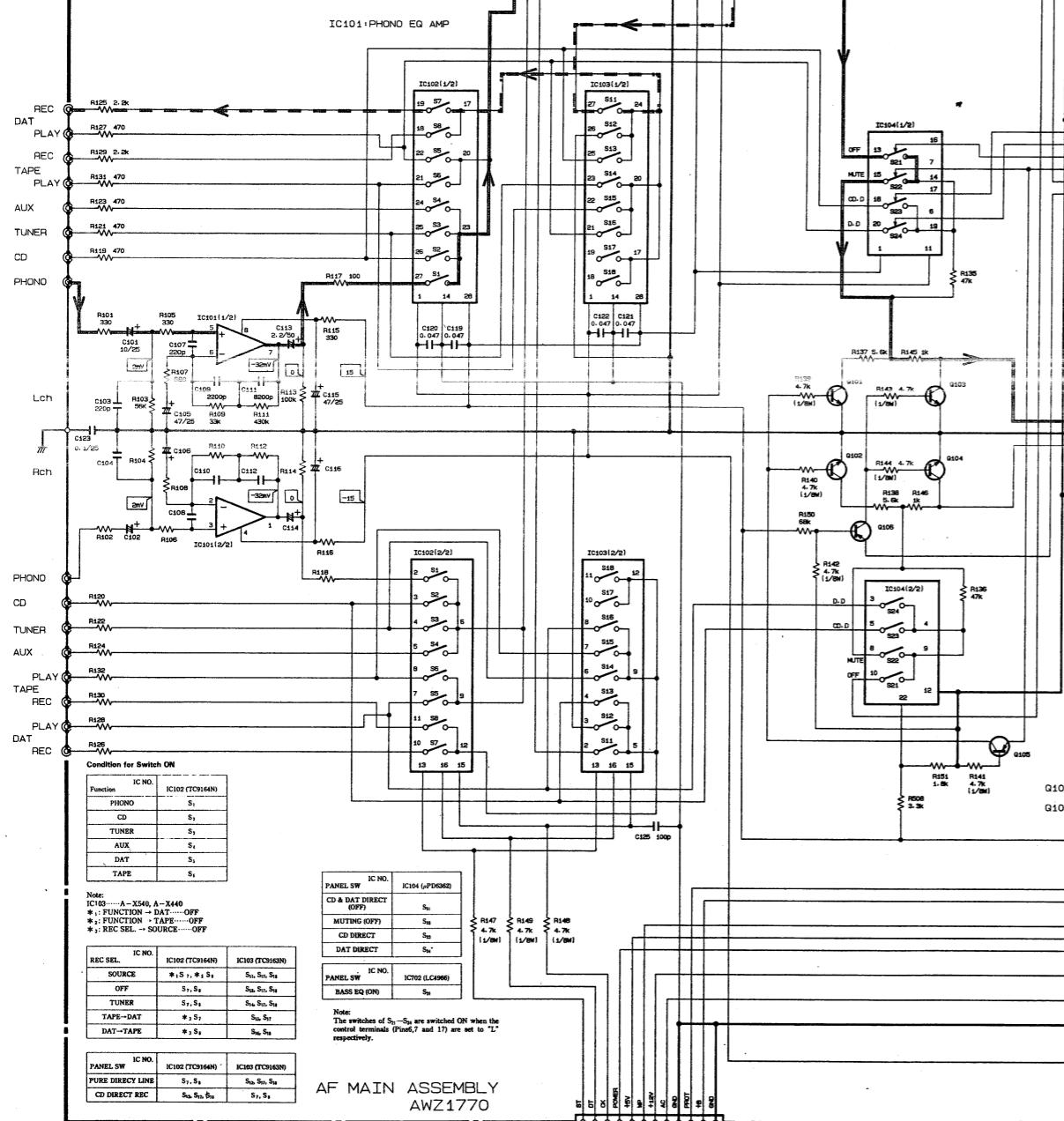
3. SCHEMATIC DIAGRAM AND P.C.BOARDS CONNECTION DIAGRAM

3.1 A-X540

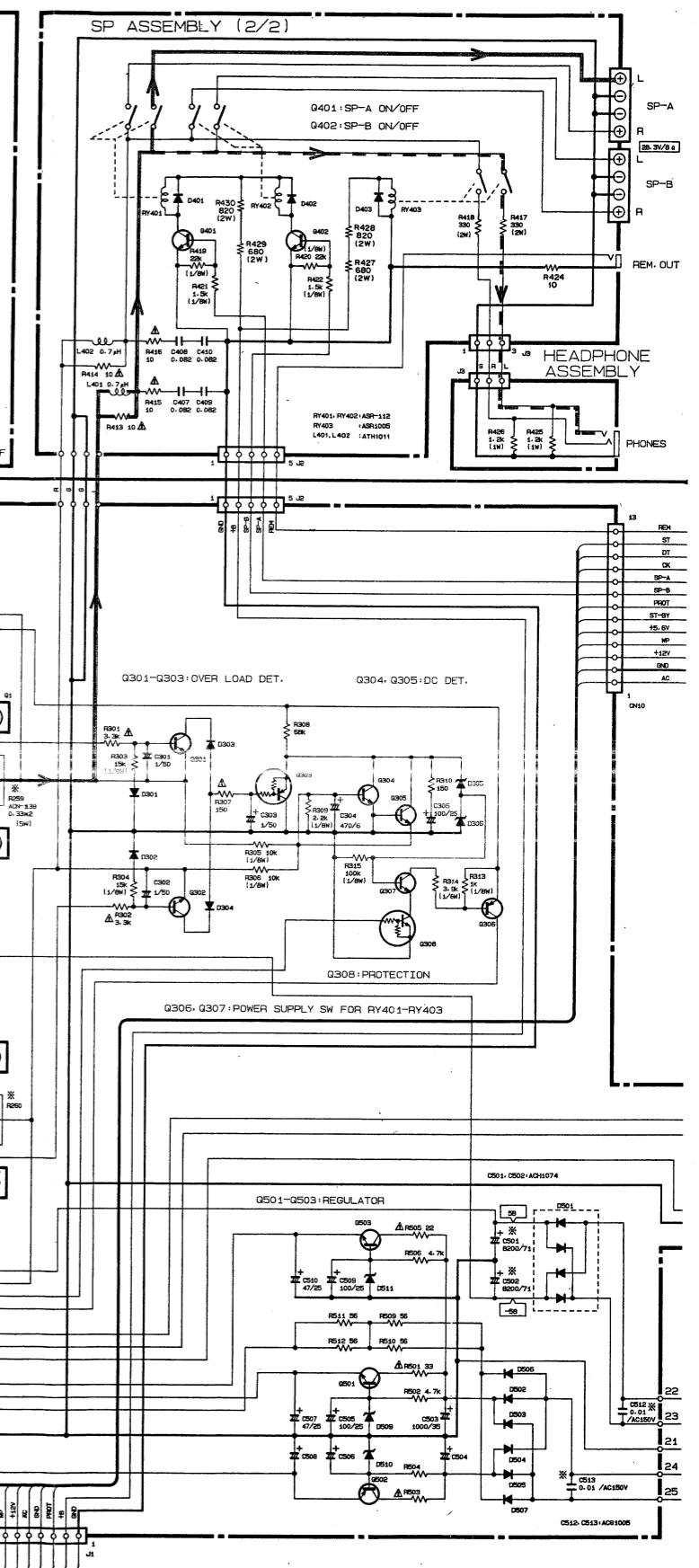
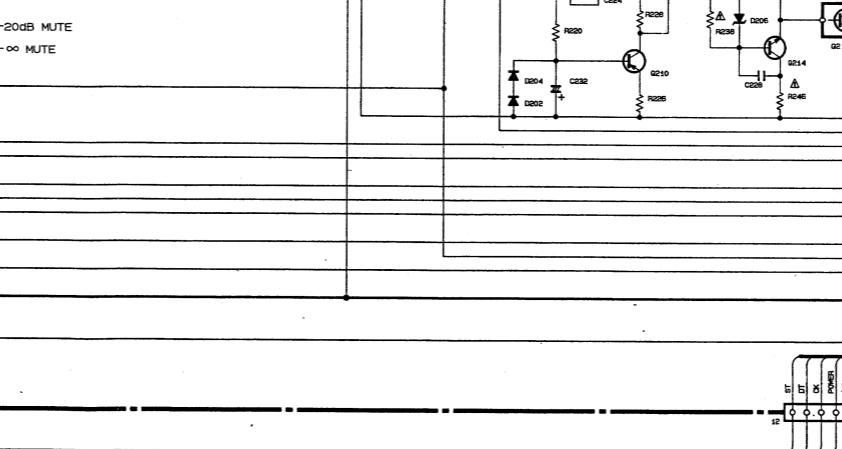
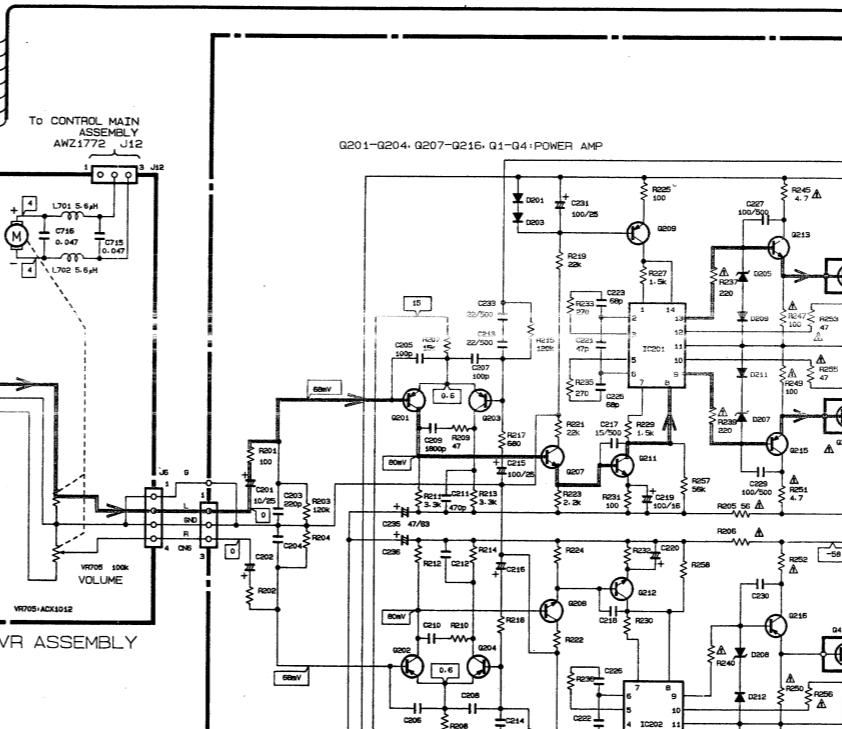
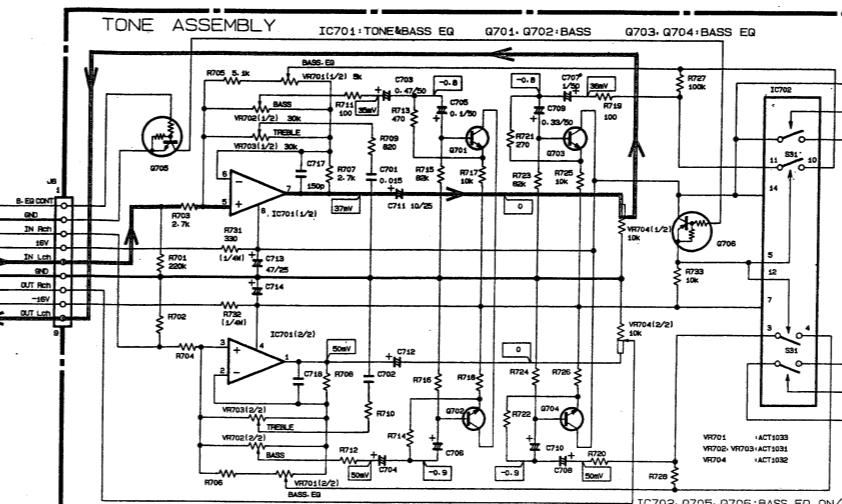
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AF MAIN ASSEMBLY
AWZ1770

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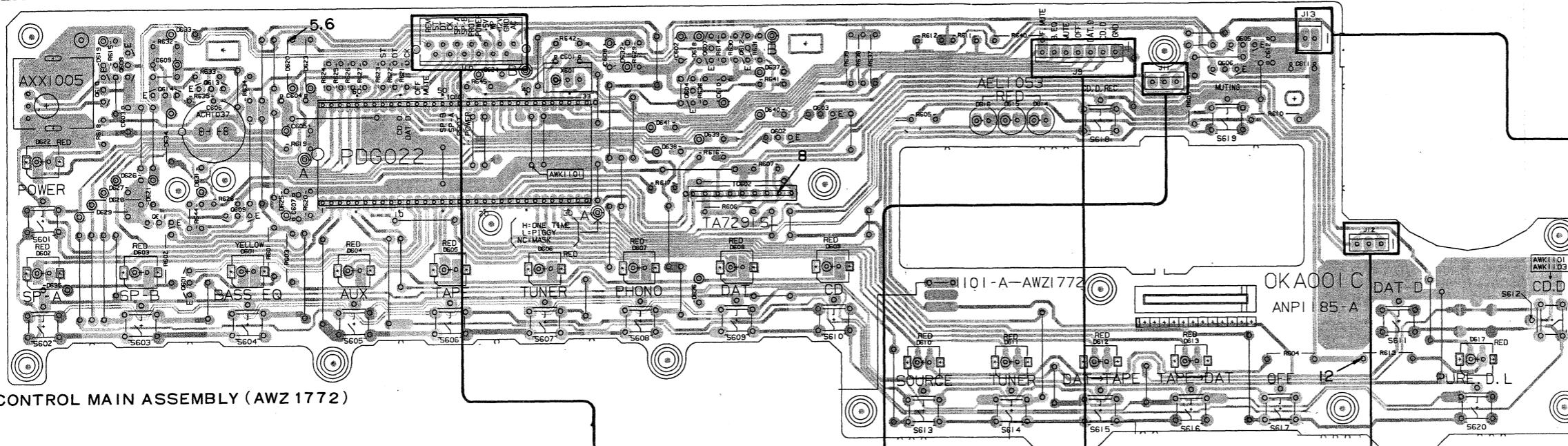
Q610 Q608 Q614 Q613
Q611 Q609
Q601

IC601

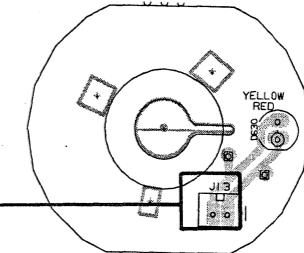
Q607 Q612
IC602 Q602 Q603

Q606 Q605

A

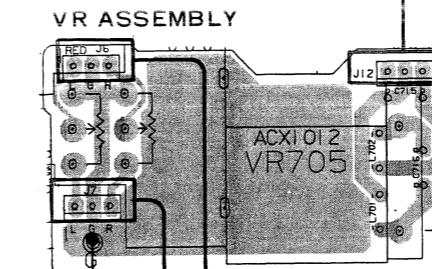
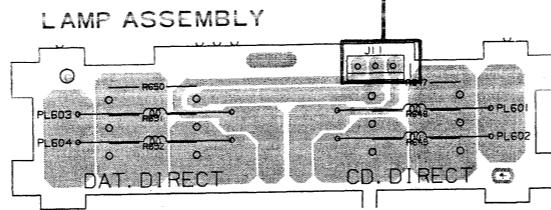
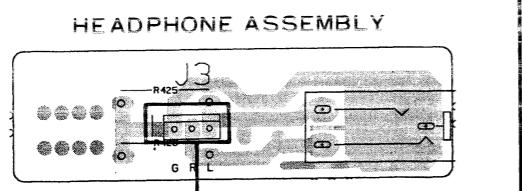


LED ASSEMBLY



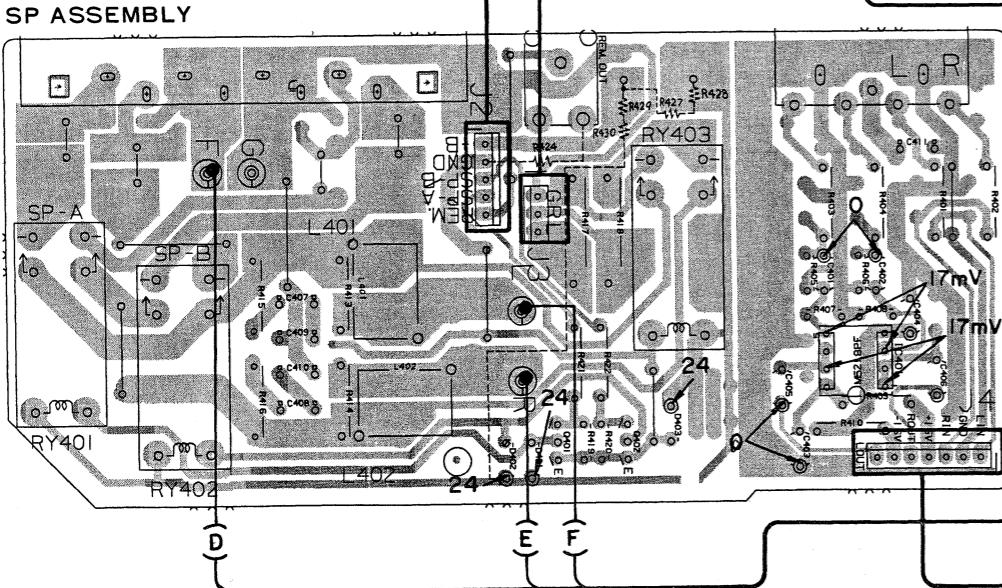
AC POW
AC 220
240
50/60Hz

B

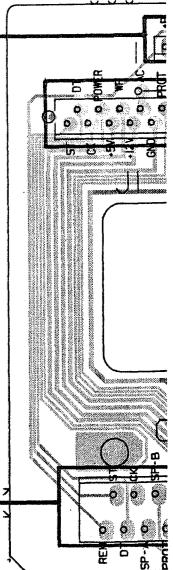
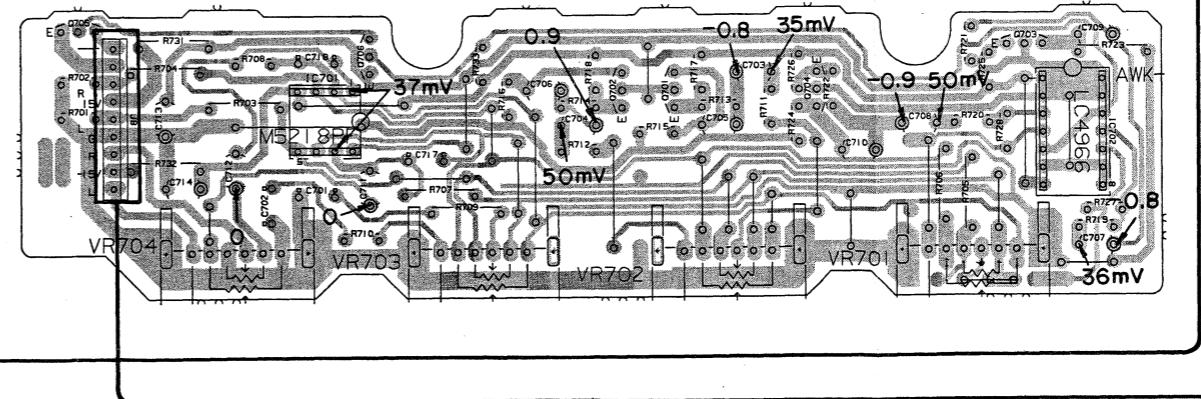


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TONE ASSEMBLY



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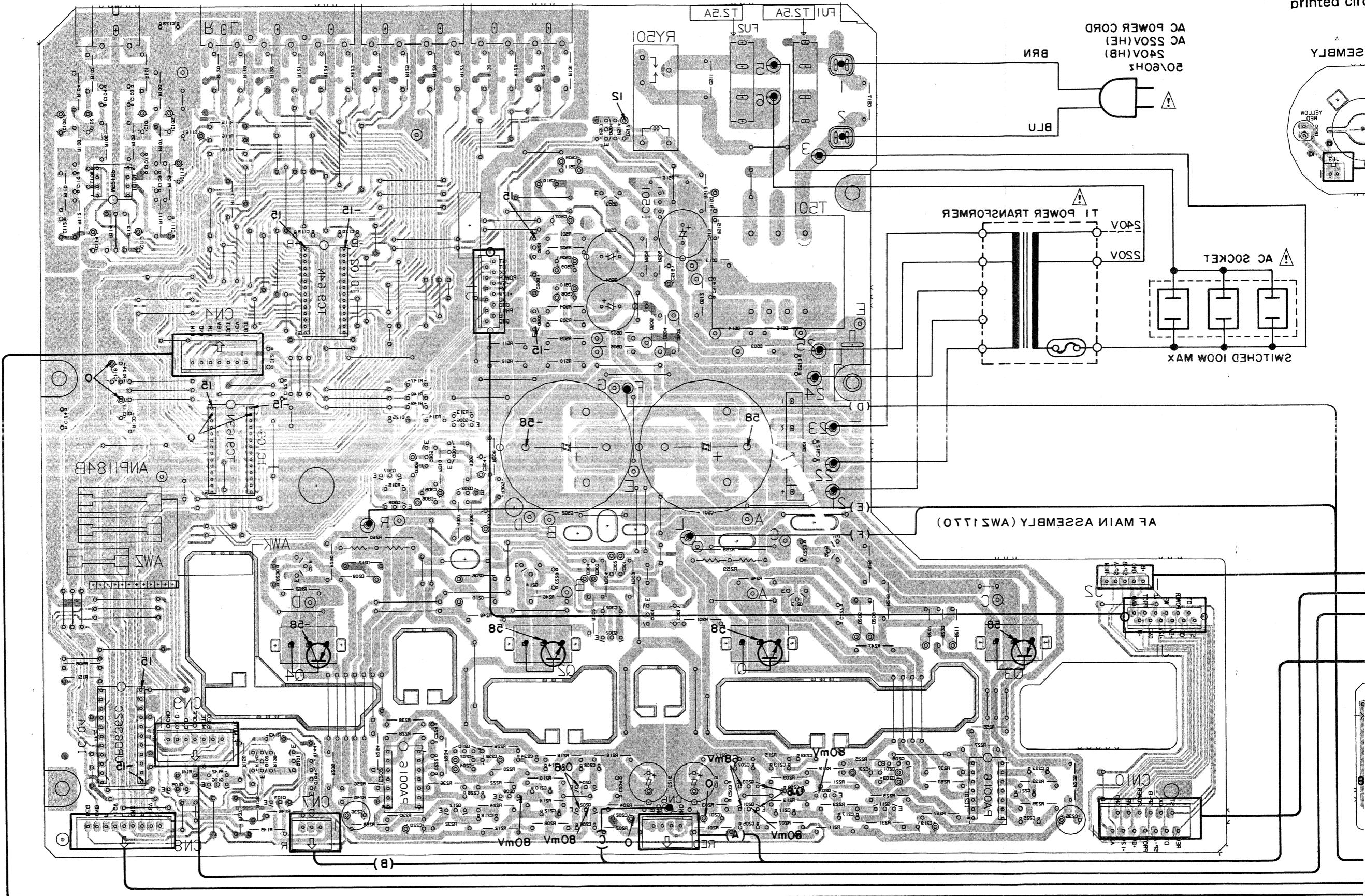
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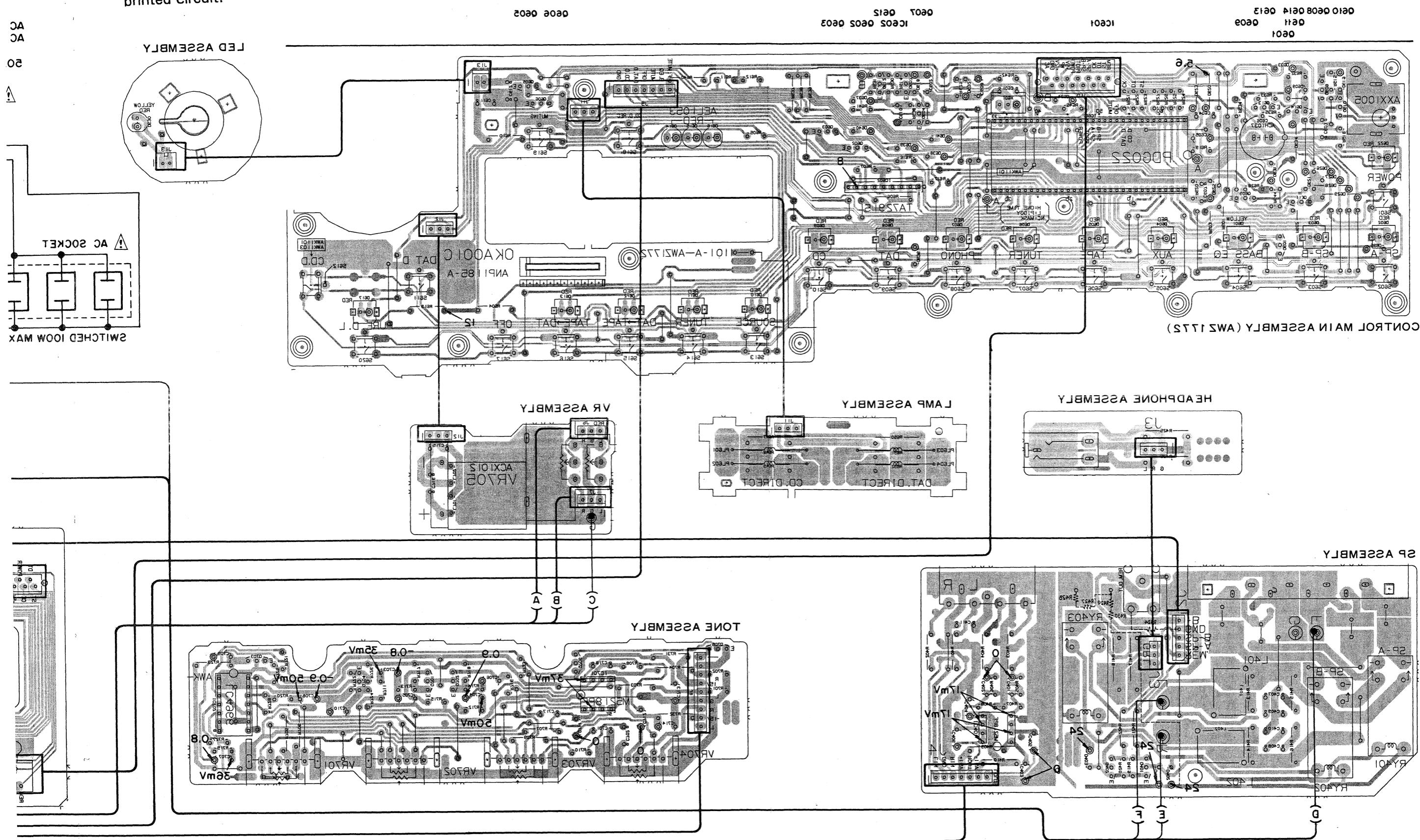
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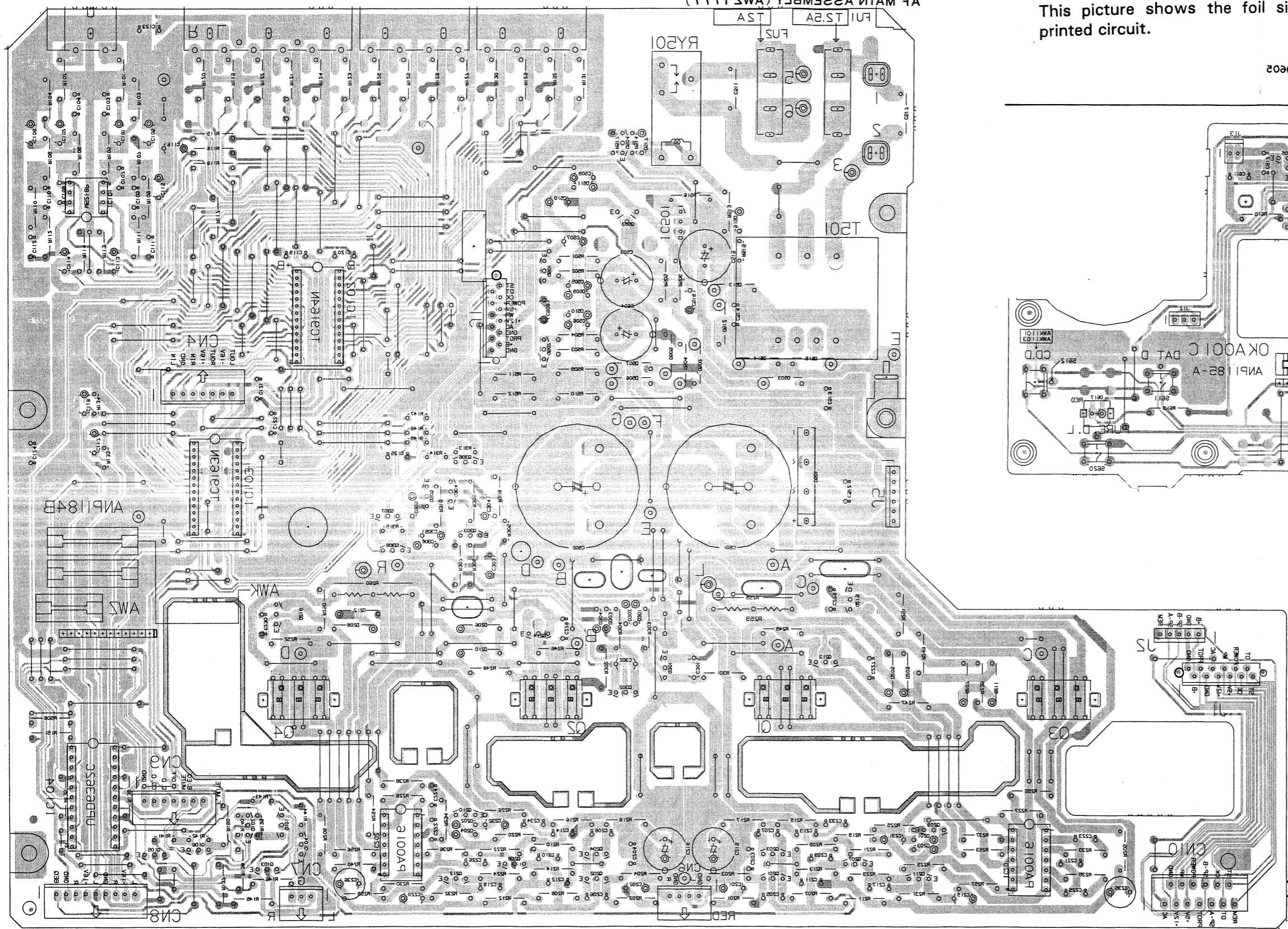
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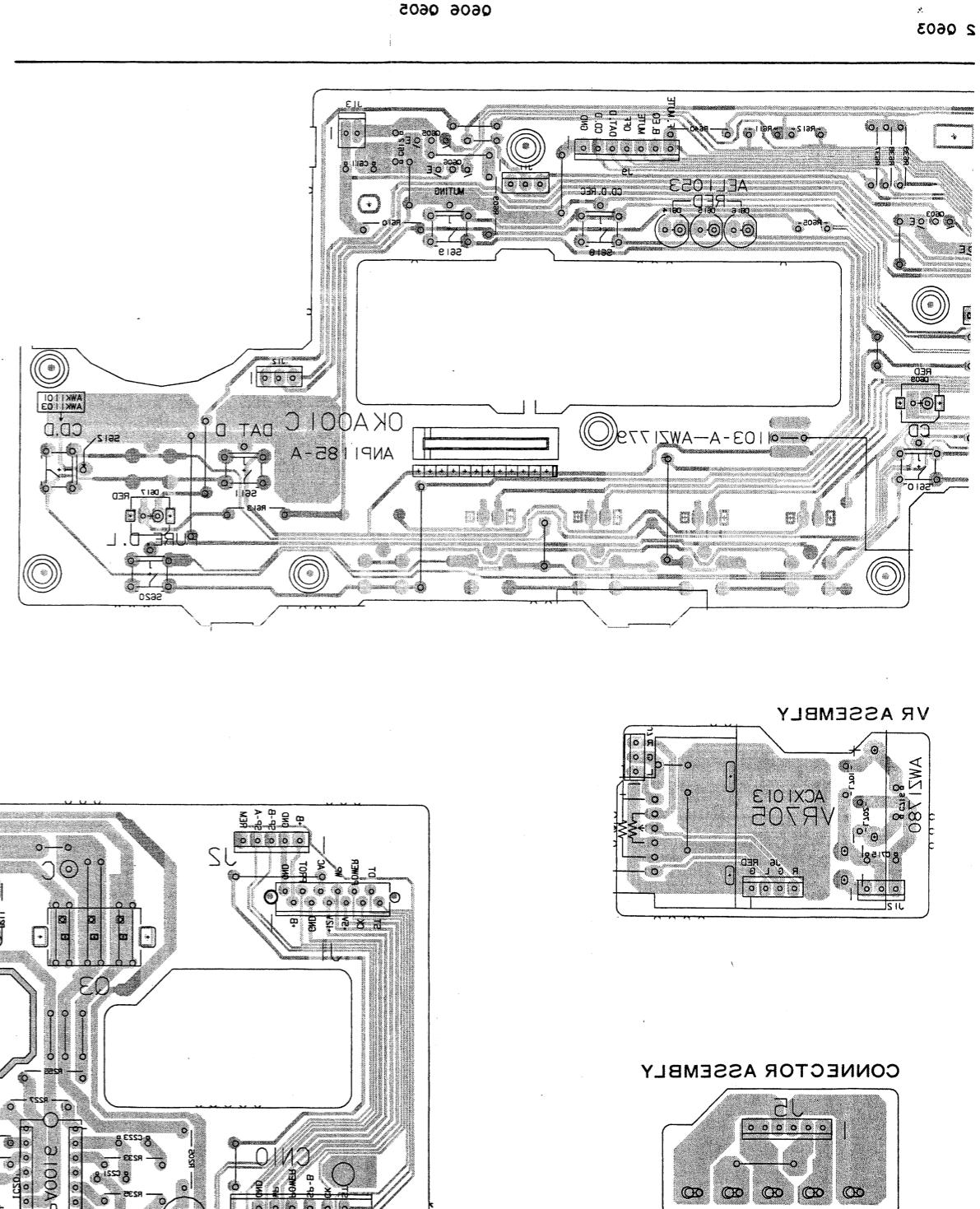
NOTE:
This picture
printed circ

NOTE:
This picture shows the foil side of the
printed circuit.

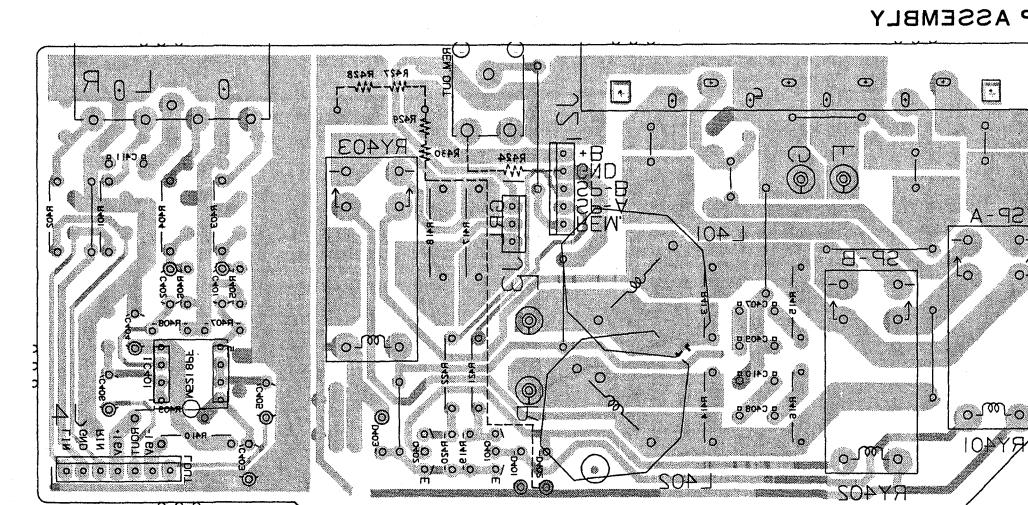
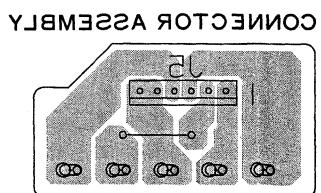
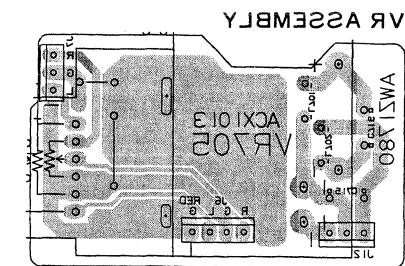
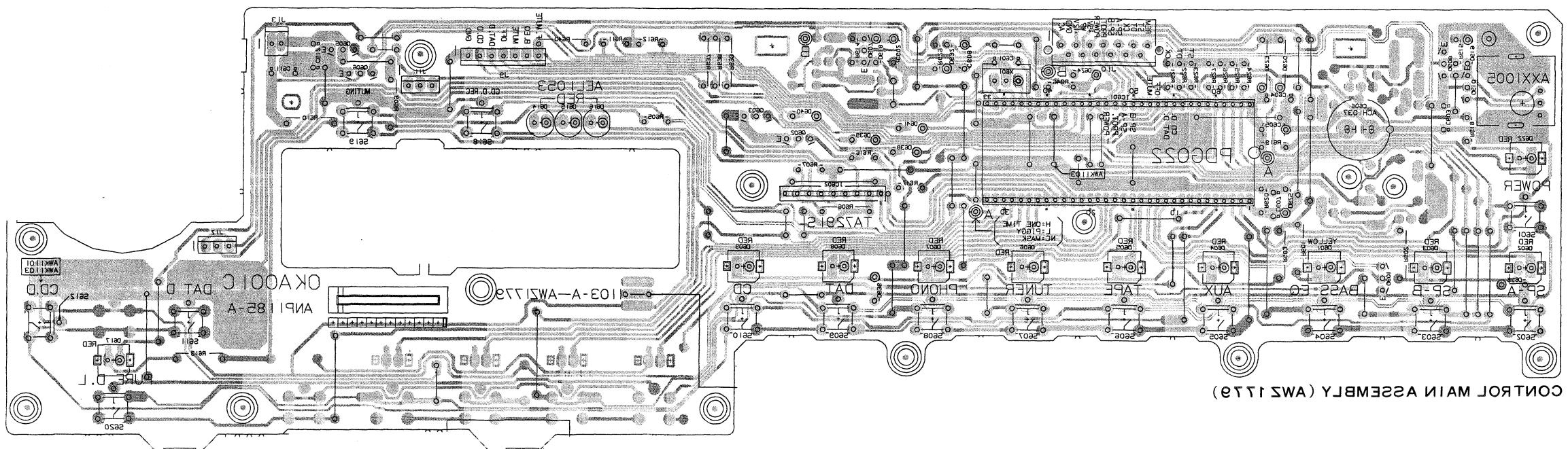
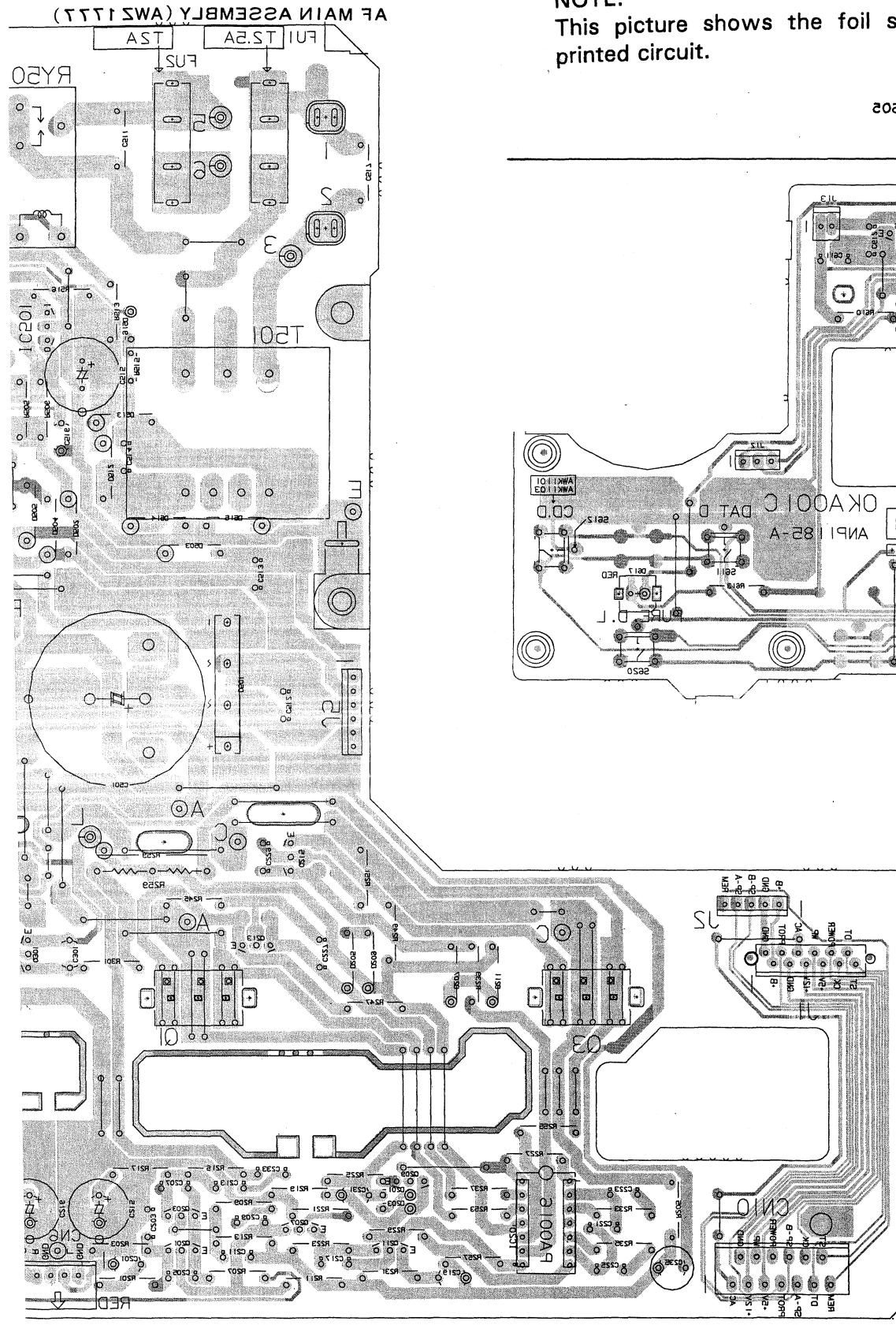




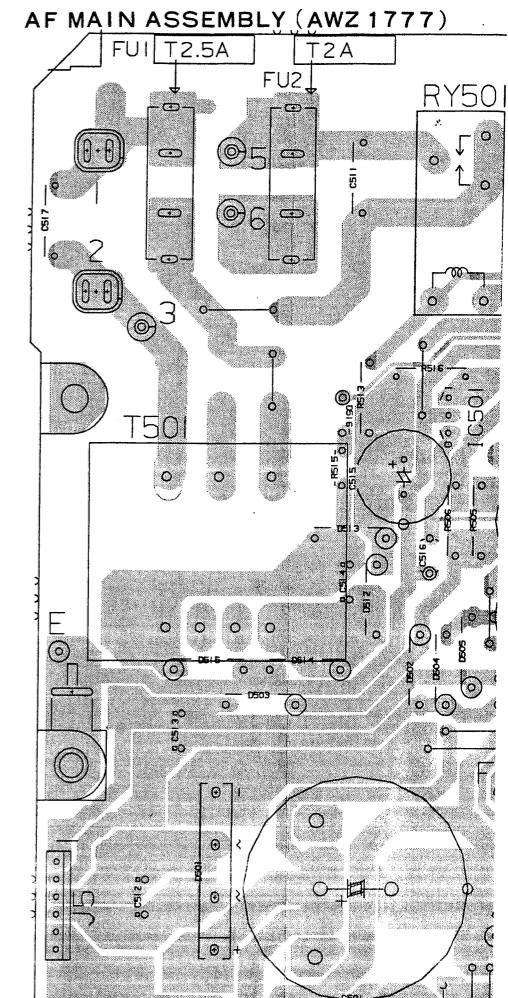
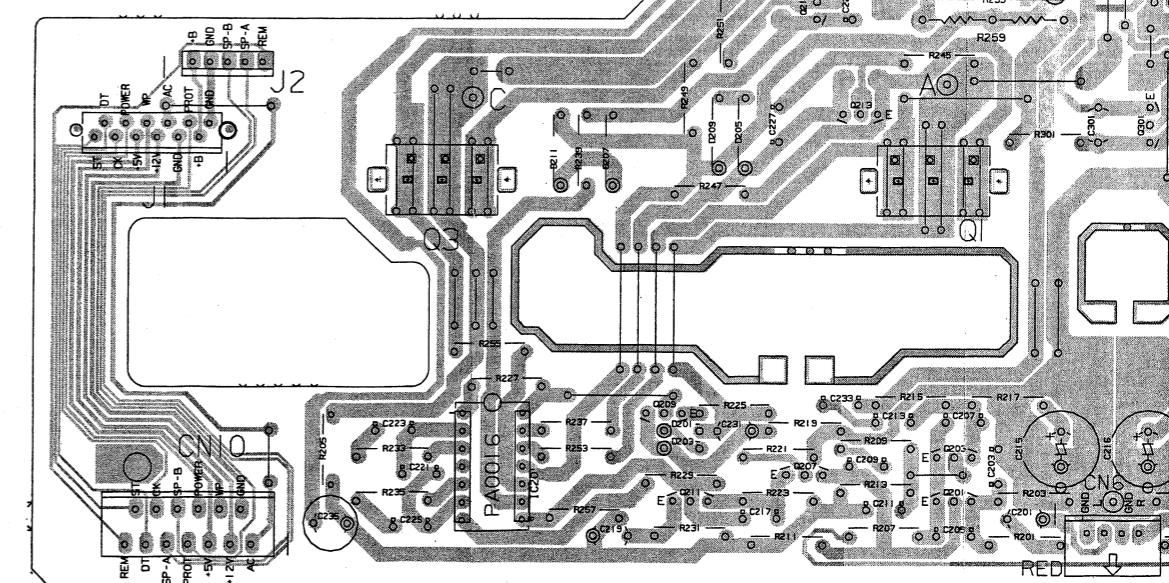
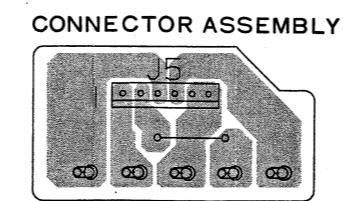
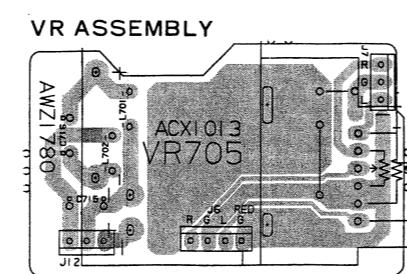
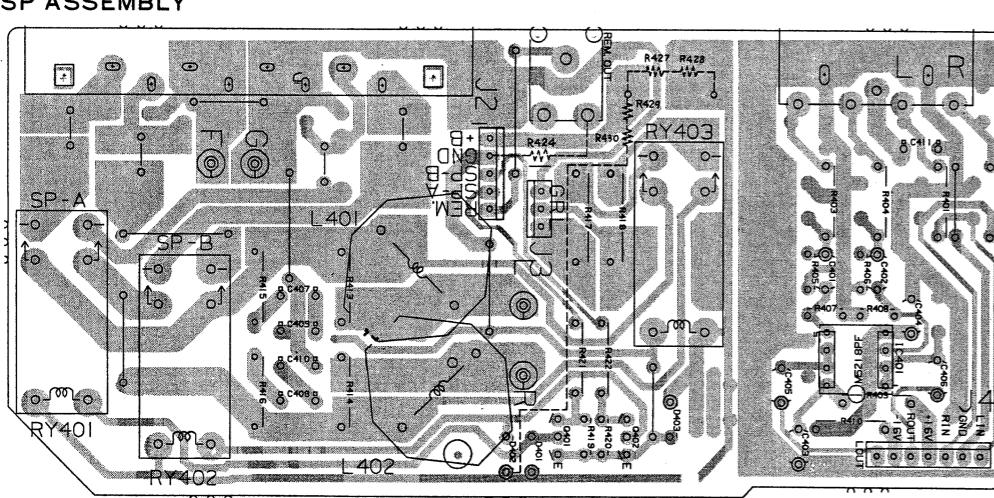
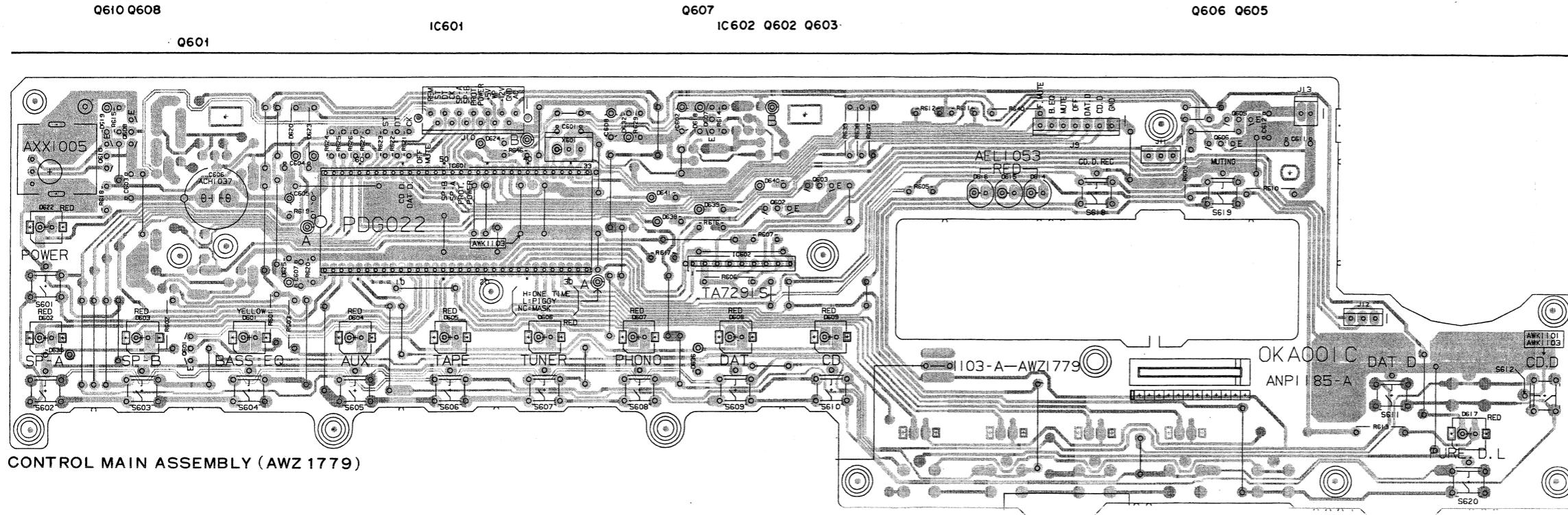
NOTE:
This picture shows the foil side of the
printed circuit.



NOTE:
This picture shows the foil side of the
printed circuit.



3.2 A-X440



IC501 Q!
Q301

IC201 Q209 Q211

Q213 Q213
Q207 Q203 Q201

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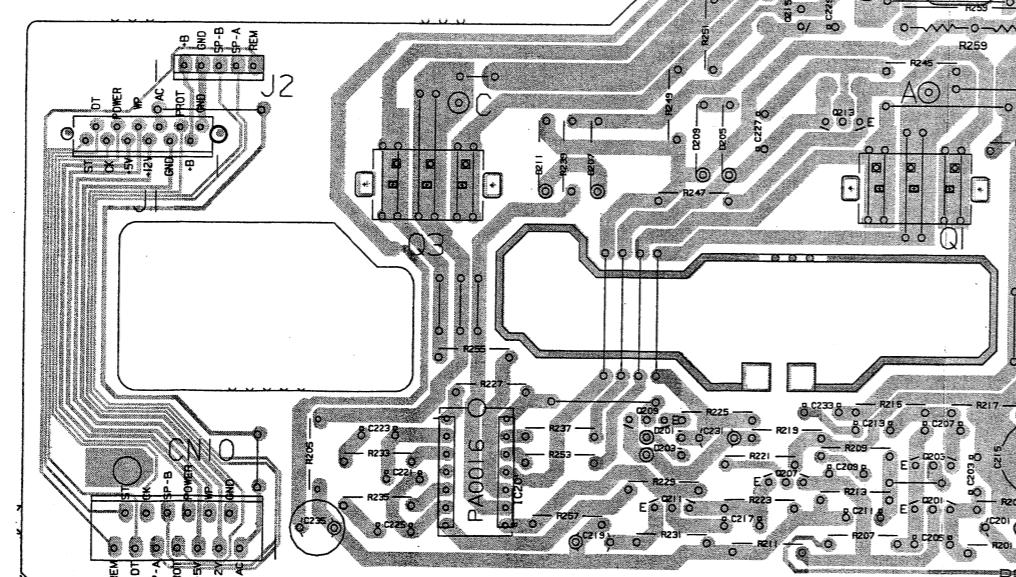
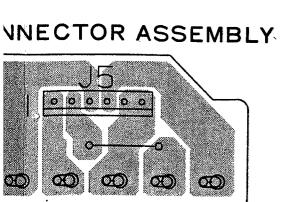
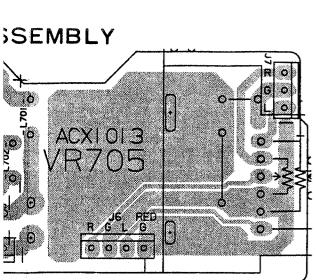
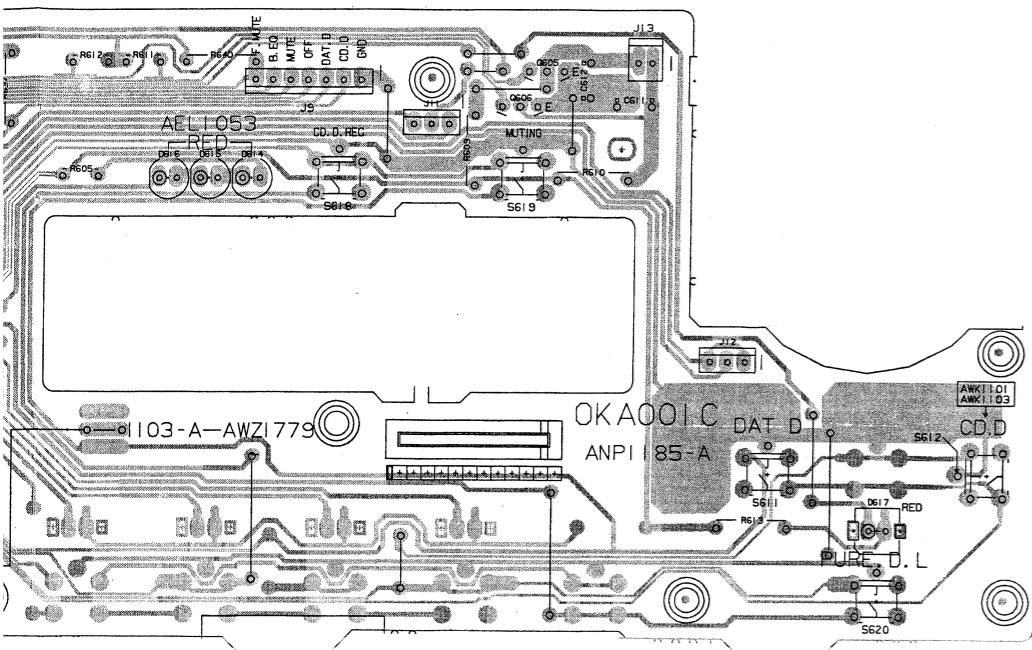
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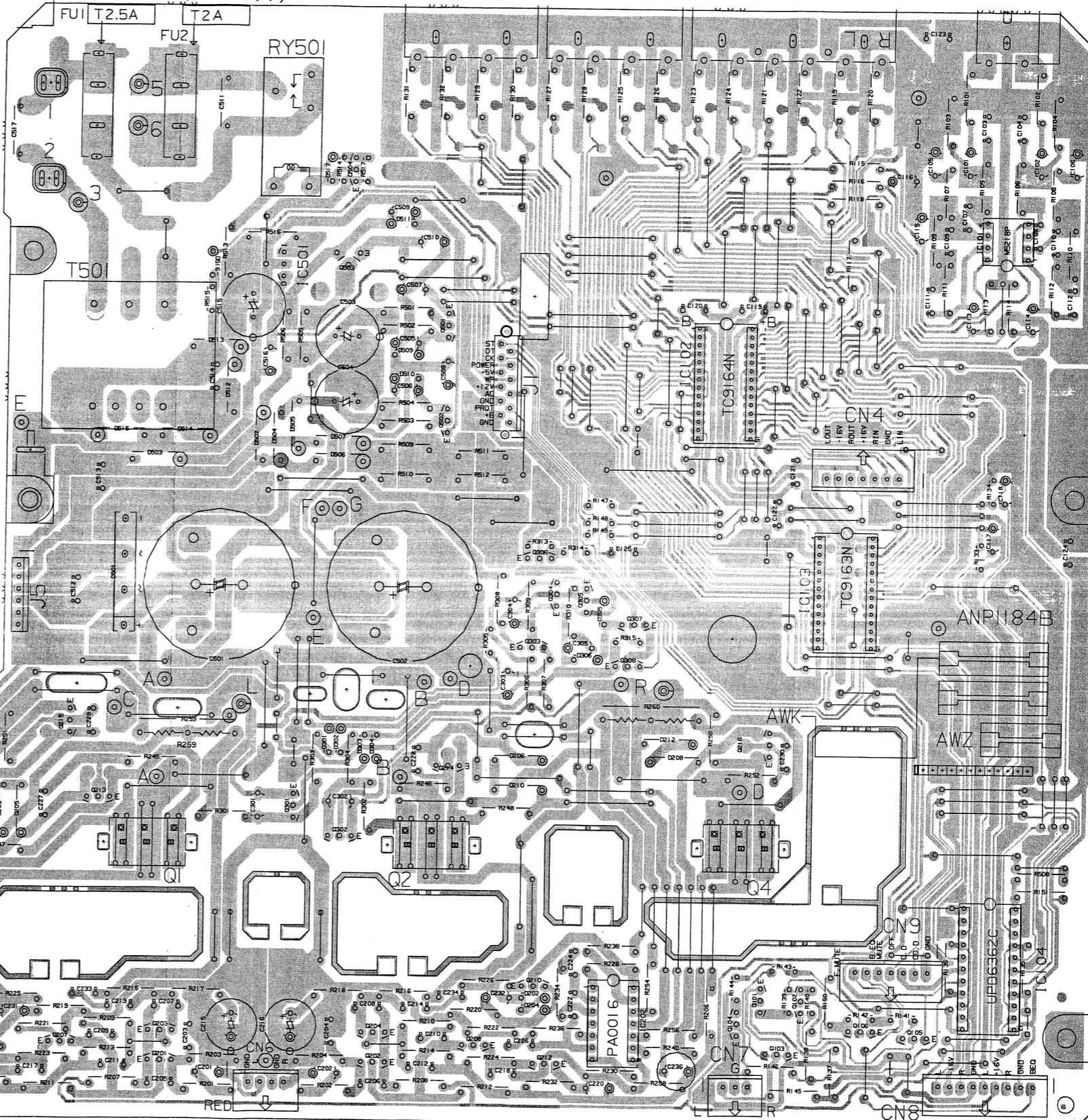
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Q606 Q605



AF MAIN ASSEMBLY (AWZ 1777)



IC201 Q209 Q211

Q215 Q213
Q207 Q203 Q201IC501 Q501-Q504
Q301 Q302

Q214

Q208

Q303-Q308
Q210 Q212

IC202

IC102 Q216
IC103 Q101-Q106

IC101 IC104

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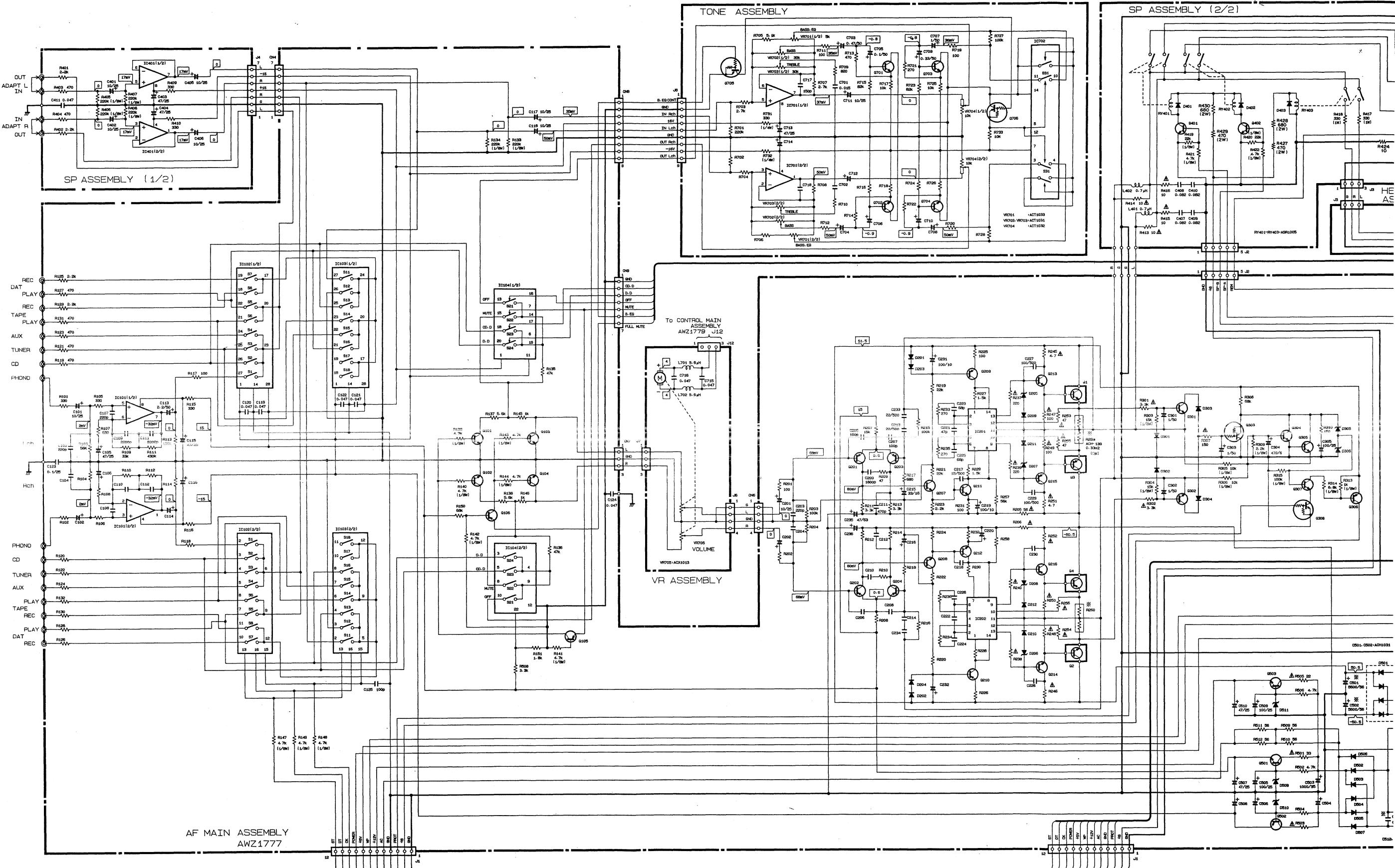
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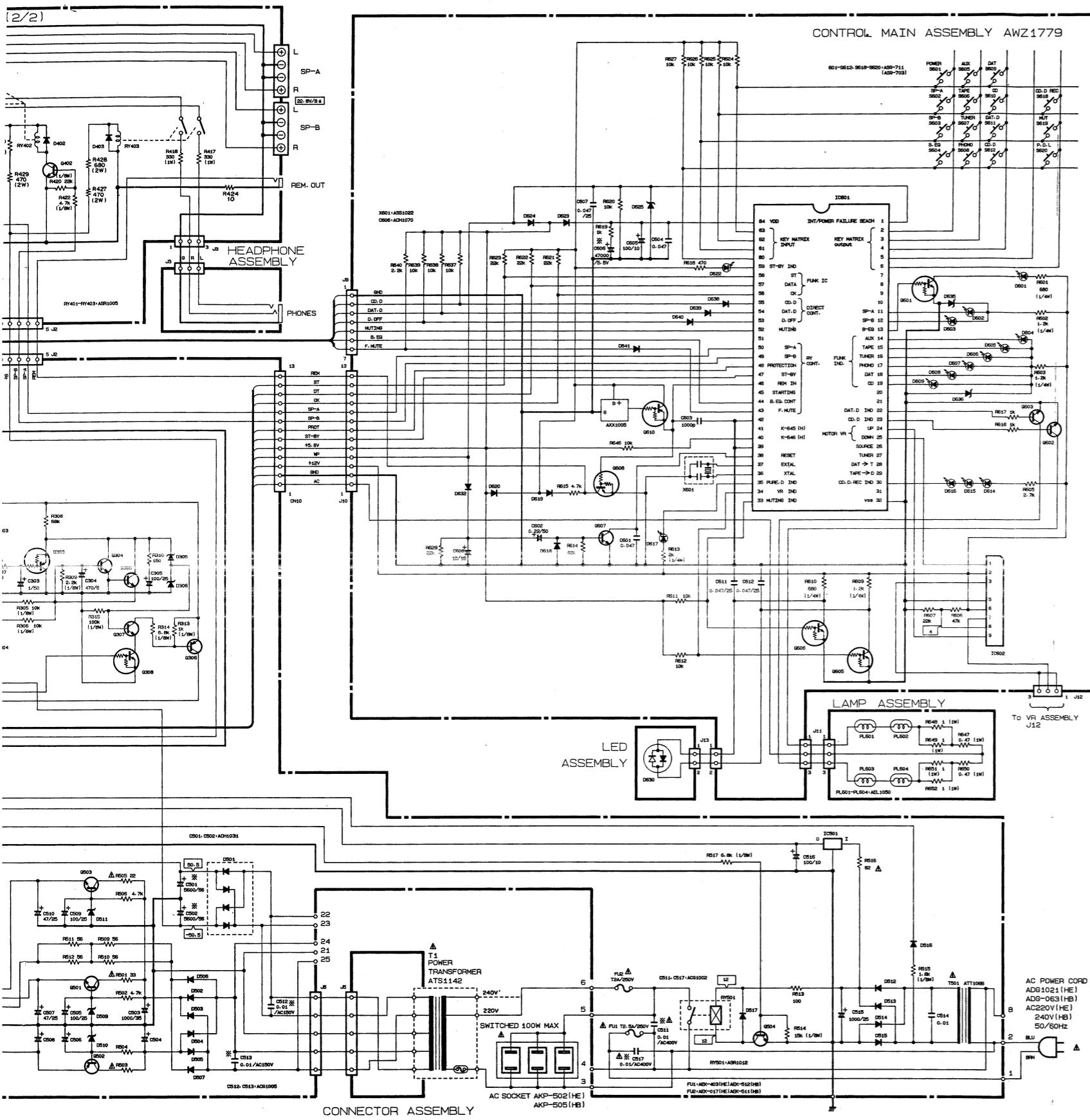
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AF main assembly (AWZ1777)

Q3, Q4 Transistor	2SA1264N
Q1, Q2 Transistor	2SC3181N
IC101	M5218P
IC501	M5278L56
IC201, IC202	PA0016
IC103	TC9163N
IC102	TC9164N
IC104	μ PD6362C
Q308	RN1201 (DTC143ES)
Q303	RN2203 (DTA124ES)
Q105, Q106	2SA1048
Q215, Q216	2SA5 5
Q201-Q204, Q209, Q210	2SA992
Q306, Q502	2SB560
Q213, Q214	2SC2235
Q207, Q208, Q211, Q212, Q301, Q302, Q307, Q504	2SC2240
Q304, Q305	2SC2458
Q101-Q104	2SC2878
Q501	2SD438
Q503	2SD880
D207, D208	HZS4BLL
D205, D206	HZS5BLL
D501	RBV402
D305	RD13ESB
D511	RD13ESB1
D509, D510	RD16ESB3
D306	RD5.6ESB
D502-D507, D512-D515	S5566 (1IE2)
D201-D204, D209-D212, D301-D304, D516, D517	1SS252

1. RESISTORS:
Indicated in Ω , $\frac{1}{2}W$, $\frac{1}{4}W$, $\pm 5\%$ tolerance unless otherwise noted $k : k\Omega$, $M : M\Omega$, $(F) : \pm 1\%$, $(G) : \pm 2\%$, $(K) : \pm 10\%$ (M) ; $\pm 20\%$ tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted $p : pF$
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:
 Signal voltage of 62 w+ 62 w, 8Ω output (1kHz)
 DC voltage (V) at no input signal
Value in () is DC voltage at rated power.
 DC current at no input signal

4. OTHERS:
 Signal route.
 Adjusting point.
The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
* marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

5. SWITCH

S601	POWER	S609	DAT
S602	SP-A	S610	CD
S603	SP-B	S611	DAT.D
S604	B.EQ	S612	CD.D
S605	AUX	S618	CD.D REC
S606	TAPE	S619	MUT
S607	TUNER	S620	P.D.L
S608	PHONO		

Control main assembly (AWZ1779)

IC601	PDG022
IC602	TA7291S
Q601, Q605, Q606, Q608	RN1201 (DTC143ES)
Q610	RN2201 (DTA143ES)
Q602, Q603	2SC2235
Q607	2SC2458
D614-D616	AEL1053
D602-D609, D617, D622	AEL1072
D601	AEL1073
D635, D636	RD3.0ESB
D625	RD4.7ESB2
D618-D620, D623, D624, D632, D638-D641	1SS252

SP assembly

IC401	M5218PF
Q401, Q402	2SC2240
D401-D403	1SS252

TONE assembly

IC702	LC4966
IC701	M5218PF
Q705	RN1201 (DTC143ES)
Q706	RN2201 (DTA143ES)
Q701-Q704	2SC1740SLN

LED assembly

D630 LED	AEL1071
----------	---------

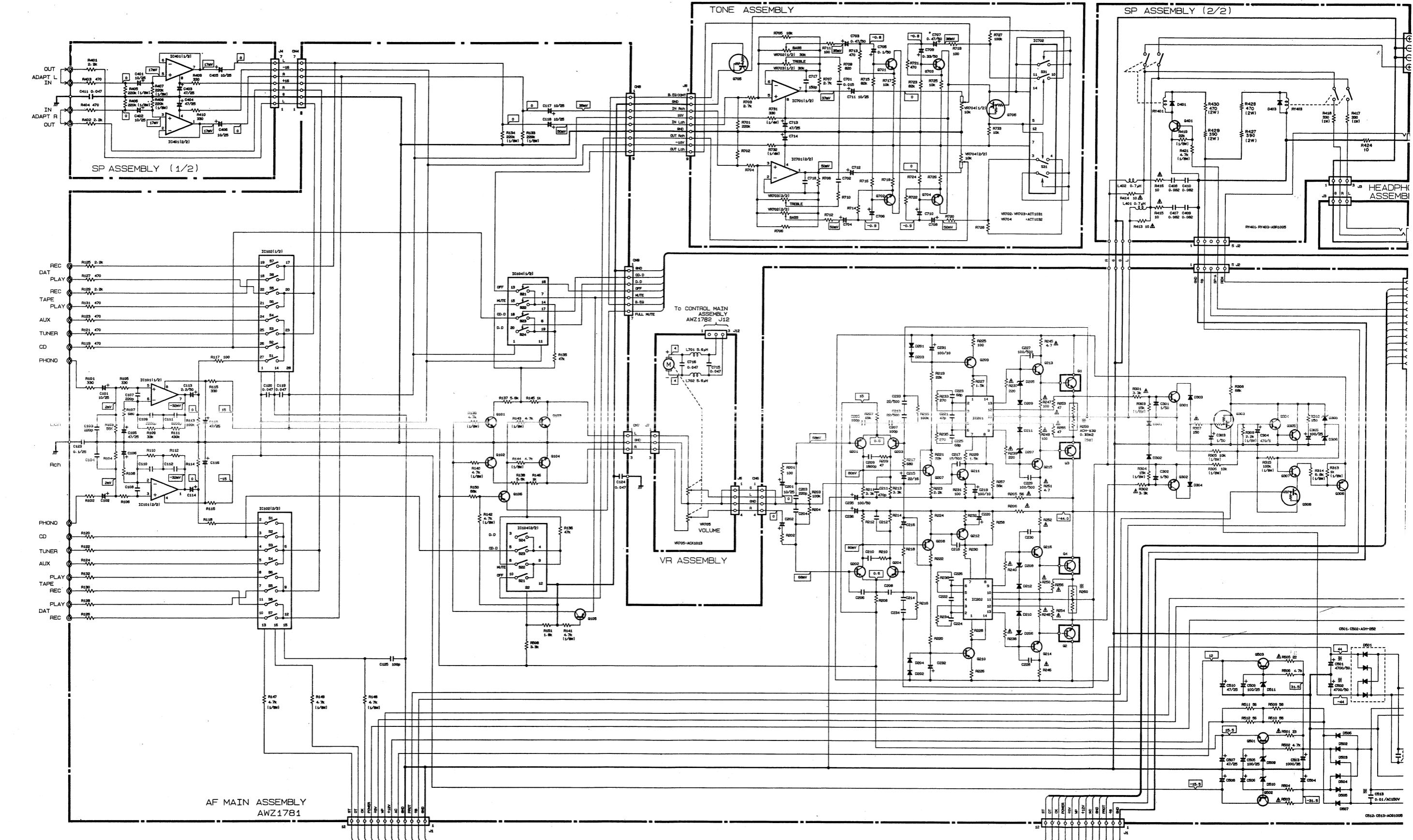
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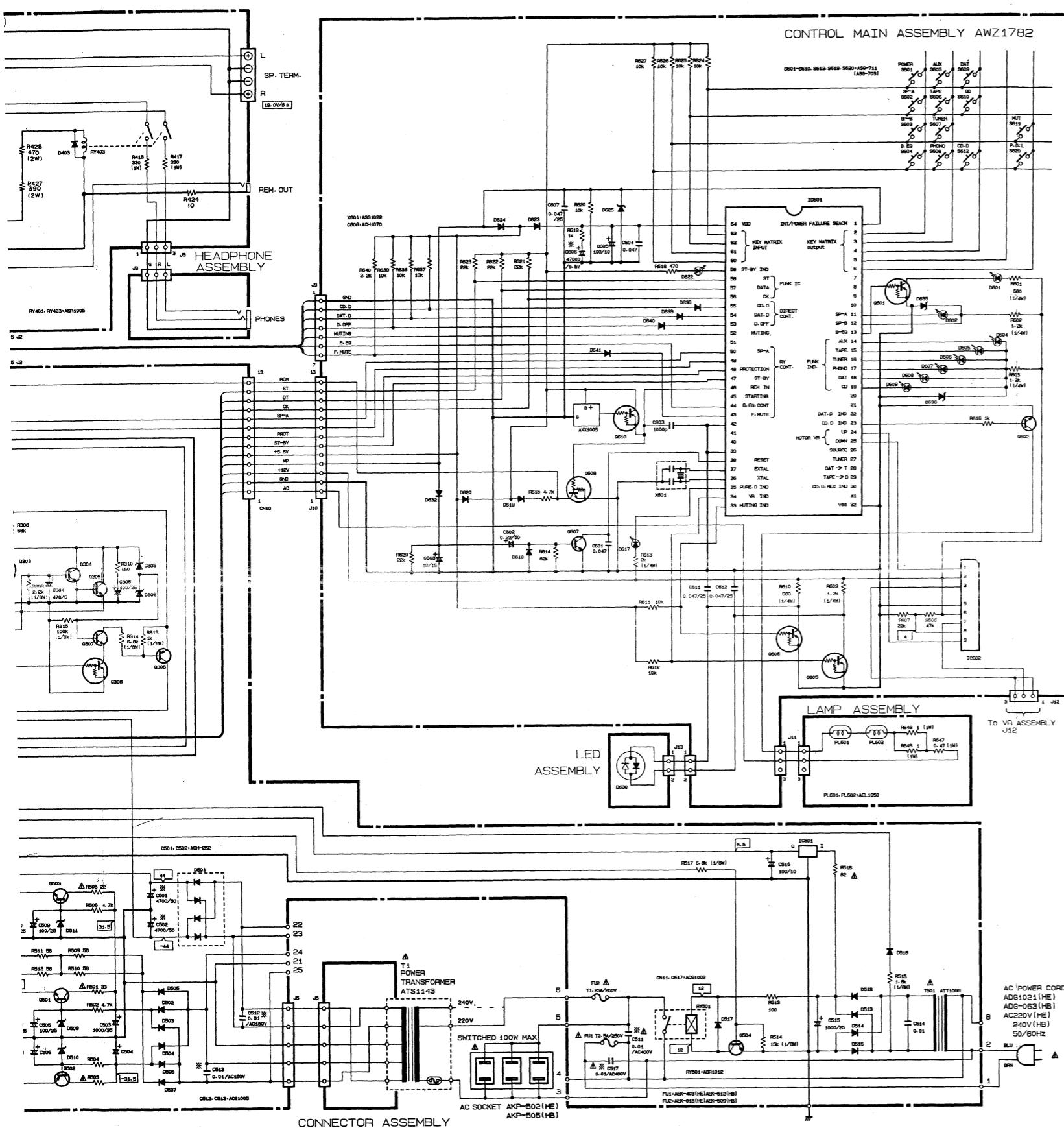
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3.3 A-X340





DOI MATN ASSEMBLY AW71782

AF main assembly (AWZ1781)

Q3, Q4 Transistor 2SA12
Q1, Q2 Transistor 2SC31

Q3,Q4 Transistor	2SA1263N	1. RESISTORS: Indicated in Ω , $\%W$, γ_W , $\pm 5\%$ tolerance unless otherwise noted $k:k\Omega$, $M:M\Omega$, (F) : $\pm 1\%$, (G) : $\pm 2\%$, (K) : $\pm 10\%$ (M) ; $\pm 20\%$ tolerance
Q1,Q2 Transistor	2SC3180N	
IC101	M5218P	2. CAPACITORS: Indicated in capacity (μF)/voltage (V) unless otherwise noted $p:pF$ Indication without voltage is 50V except electrolytic capacitor.
IC501	M5278L56	
IC201,IC202	PA0016	3. VOLTAGE, CURRENT: Signal voltage at 45 W+ 45 W, 8 Ω output (1kHz) DC voltage (V) at no input signal Value in () is DC voltage at rated power. mA : DC current at no input signal
IC102	TC9164N	
IC104	μ PD6362C	
Q308	RN1201 (DTC143ES)	4. OTHERS: Signal route. Adjusting point. The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation. * marked capacitors and resistors have parts numbers.
Q303	RN2203 (DTA124ES)	
Q105,Q106	2SA1048	
Q215,Q216	2SA965	
Q201,Q202,Q203,Q204,Q209, Q210	2SA992	This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.
Q306,Q502	2SB560	
Q213,Q214	2SC2235	
Q207,Q208,Q211,Q212,Q301, Q302,Q307,Q504	2SC2240	
Q304,Q305	2SC2458	
Q101-Q104	2SC2878	5. SWITCH
Q501	2SD438	S601 POWER S608 PIIONO
Q503	2SD880	S602 SP-A S609 DAT
D207,D208	HZS4BLL	S603 SP-B S610 CD
D205,D206	HZS5BLL	S604 B.EQ S612 CD.D
D501	RBV402	S605 AUX S618 MUT
D305	RD13ESB	S606 TAPE S620 P.D.L
D511	RD13ESB1	S607 TUNER
D509,D510	RD16ESB3	
D306	RD5.6ESB	
D502-D507,D512-D515	S5566 (11E2)	
D201-D204,D209-D212, D301-D304,D516,D517	1SS252	

Control main assembly (AWZ1782)

IC601	PDG022
IC602	TA7291S
Q601,Q605,Q606,Q608	RN1201 (DTC143ES)
Q610	RN2201 (DTA143ES)
Q602	2SC2235
Q607	2SC2458
D602,D604,D605-D609,D617, D622	AEL1072
D601	AEL1073
D635,D636	RD3.0ESB
D625	RD4.7ESB2
D618-D620,D623,D624,D632, D638-D641	1SS252

SP assembly

IC401	M5218PF
Q401	2SC2240
D401,D403	1SS252
TONE assembly	
IC702	LC4966
IC701	M5218PF
Q705	RN1201 (DTC143ES)
Q706	RN2201 (DTA143ES)
Q701-Q704	2SC1740SLN

TONE assembly

IC702	LC4966
IC701	M5218PF
Q705	RN1201
Q706	(DTC143ES)
Q701 - Q704	RN2201 (DTA143ES) 2SC1740SLN

LED assembly

D630 LED AEI 1071

1

2

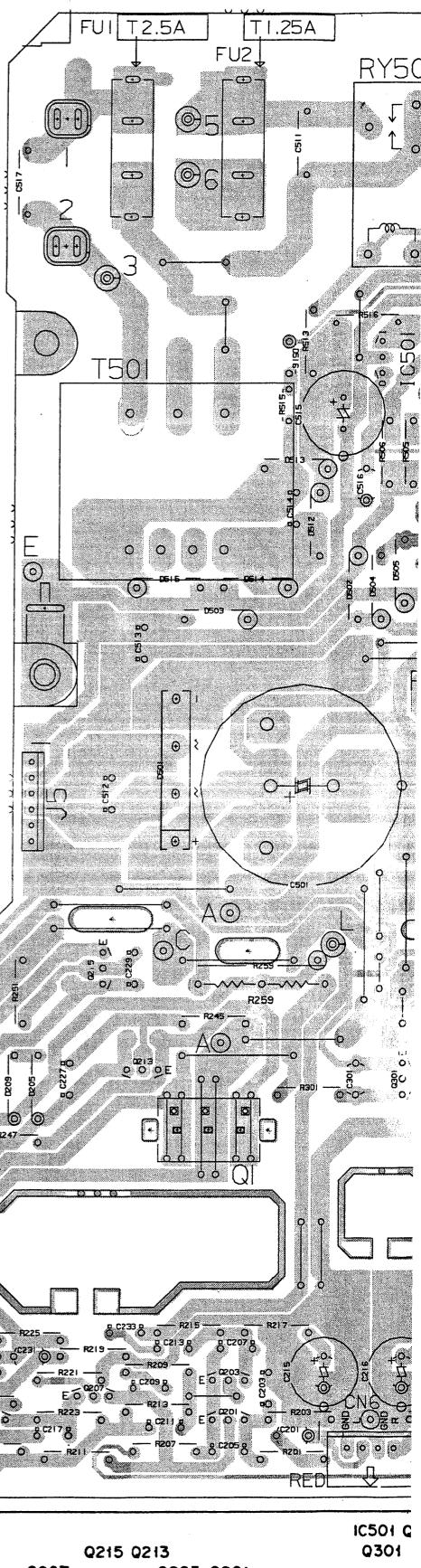
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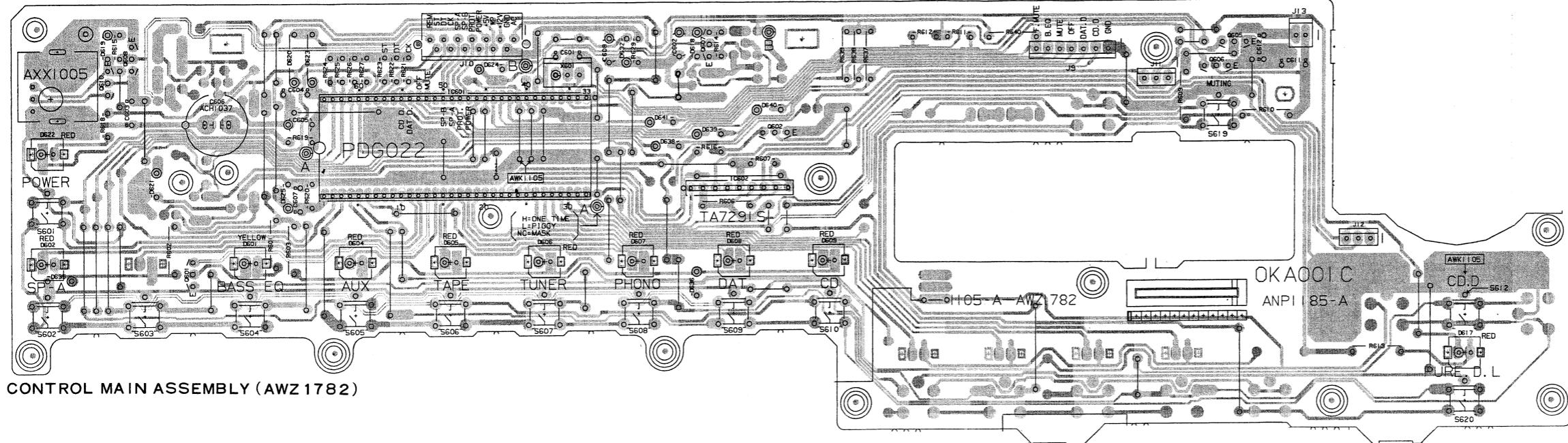
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6

AF MAIN ASSEMBLY (AWZ 1781)

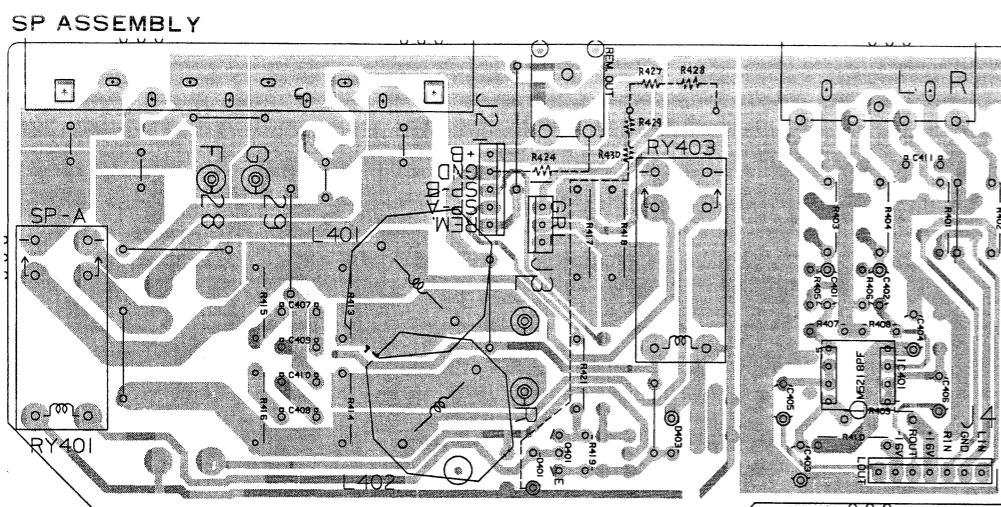


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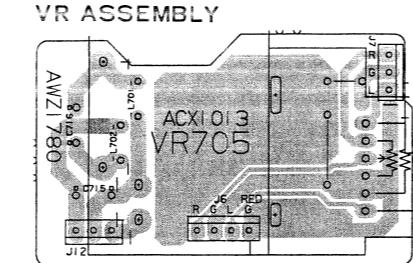


CONTROL MAIN ASSEMBLY (AWZ 1782)

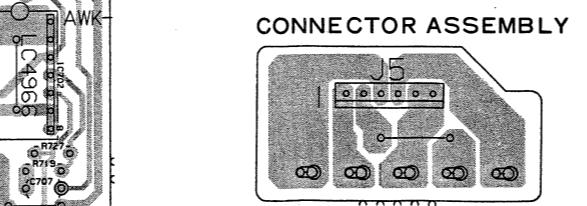
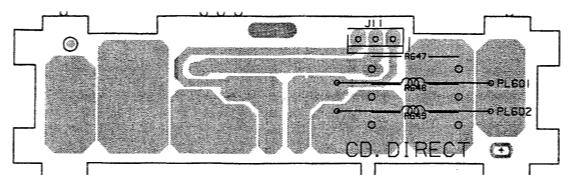
B



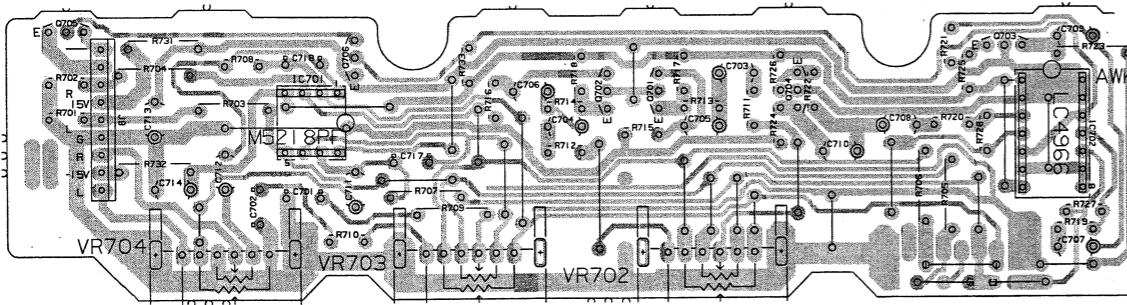
SP ASSEMBLY



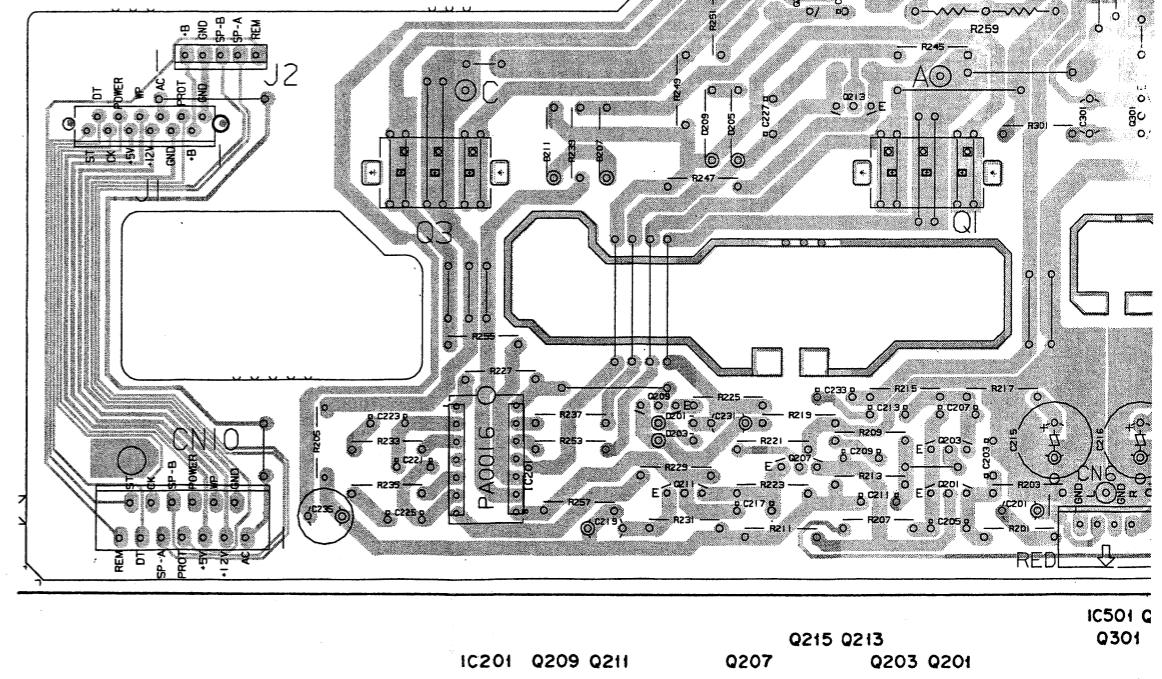
VR ASSEMBLY



D



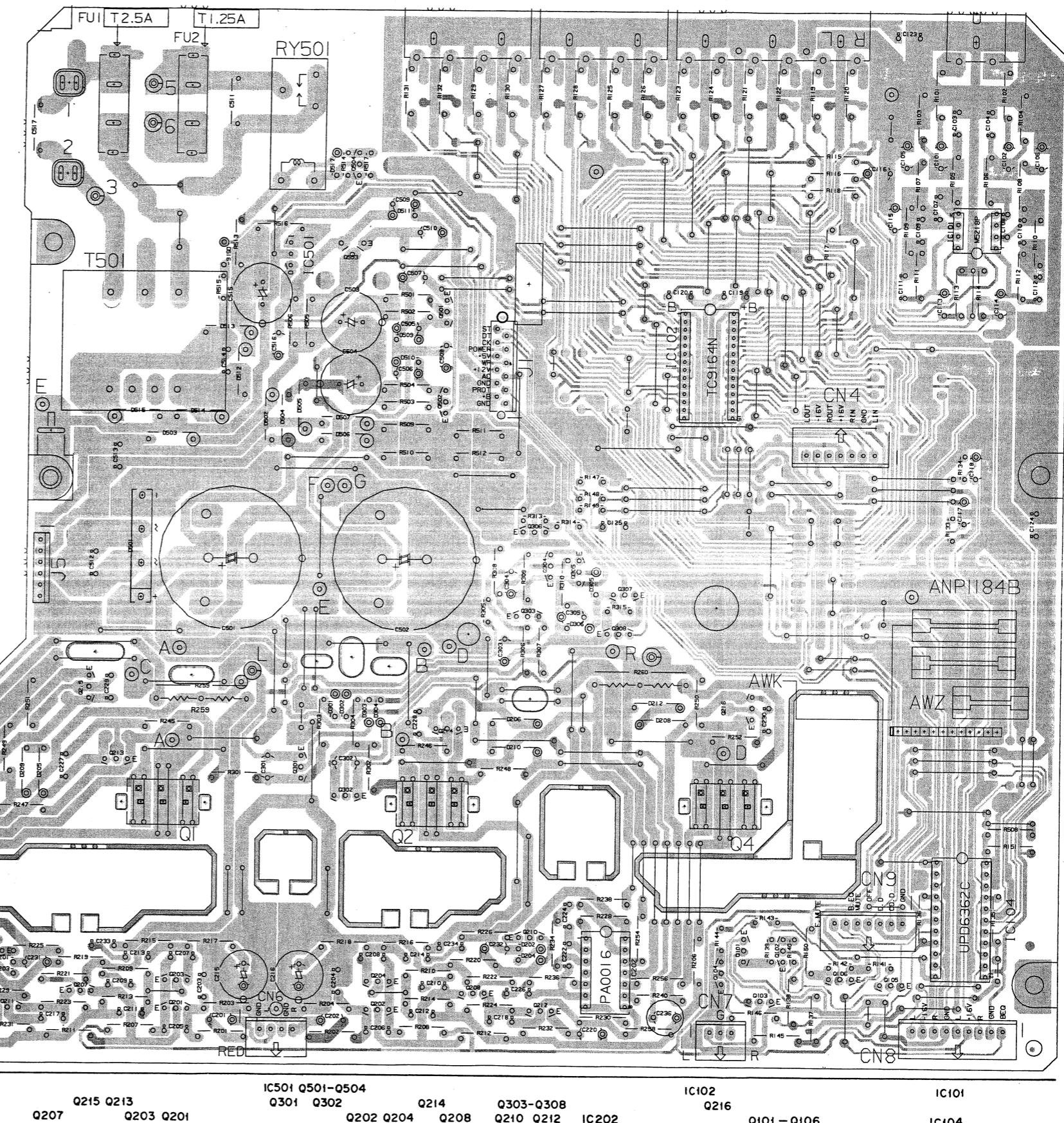
TONE ASSEMBLY



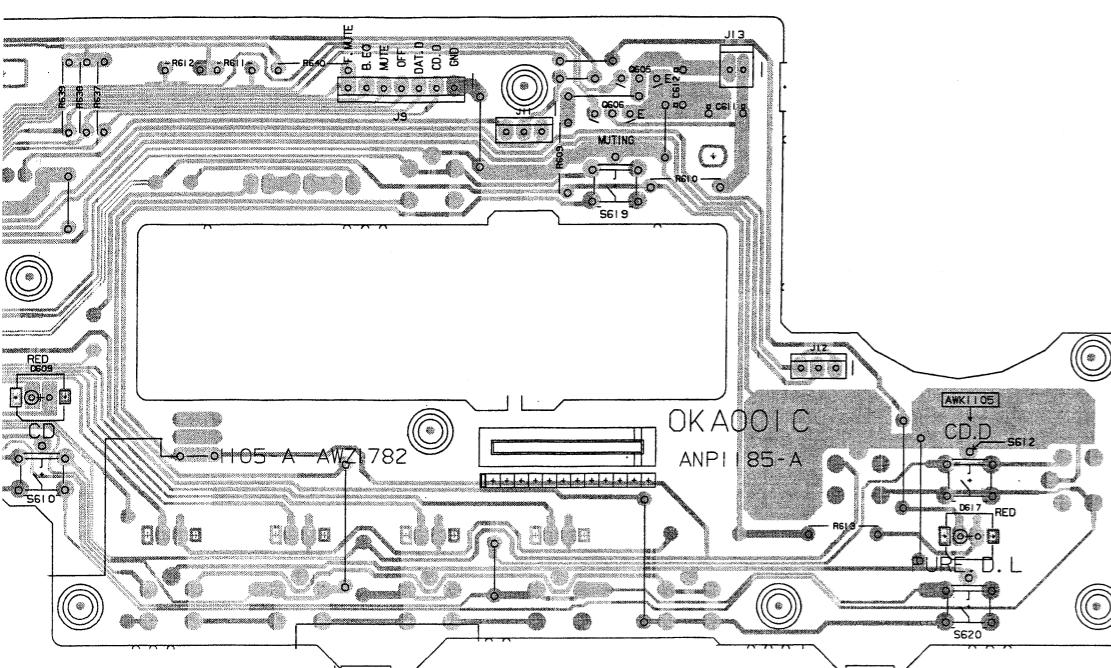
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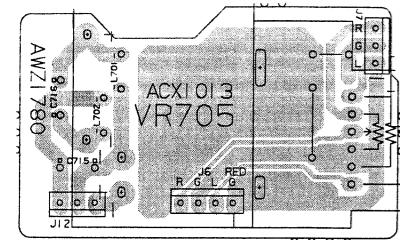
AF MAIN ASSEMBLY (AWZ 1781)



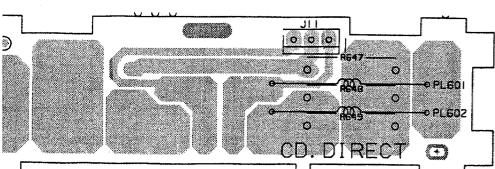
Q606 Q605



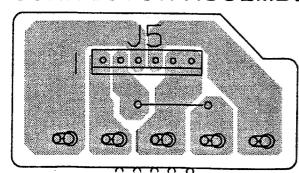
VR ASSEMBLY



P ASSEMBLY



CONNECTOR ASSEMBLY



9

8

7

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1

A

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3

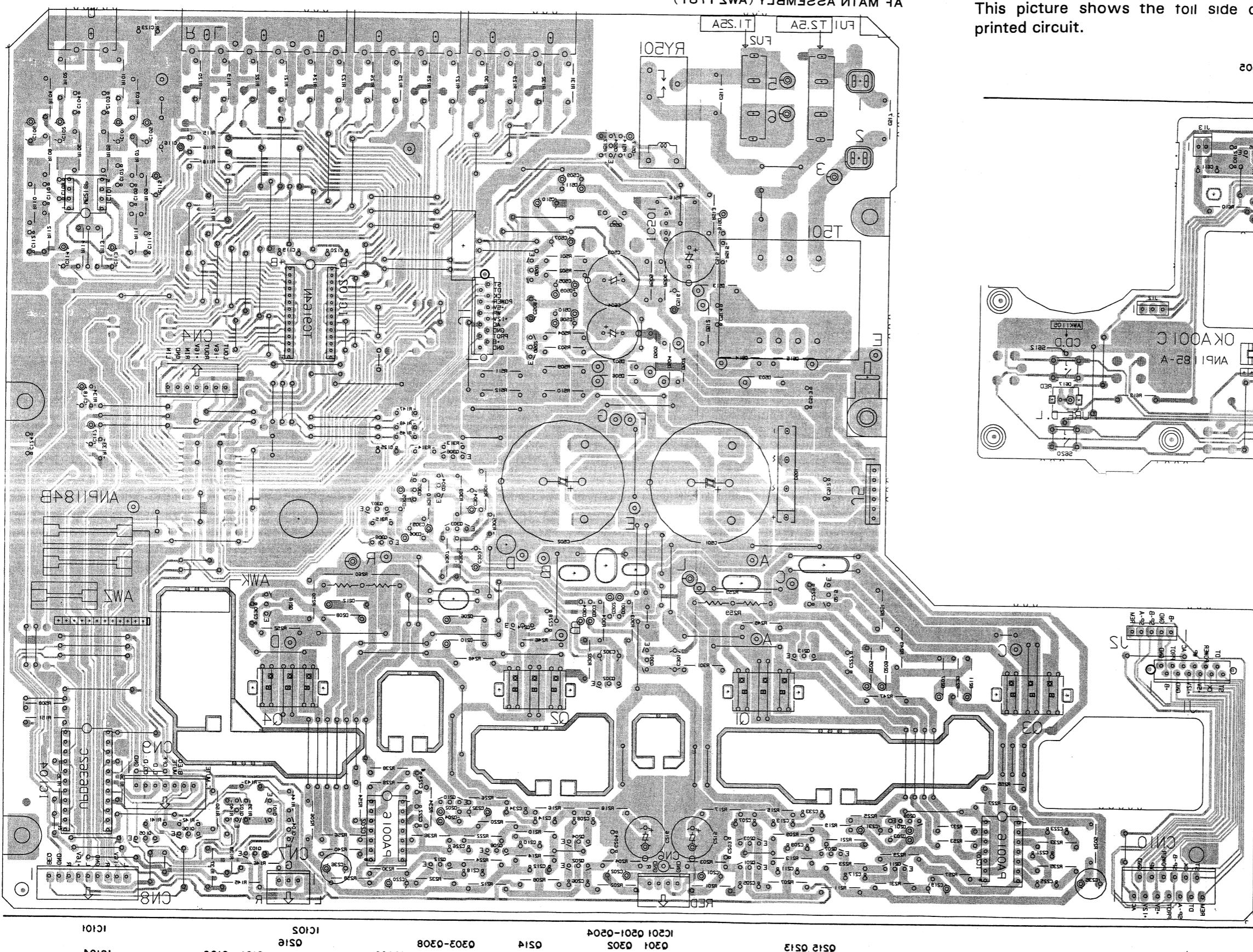
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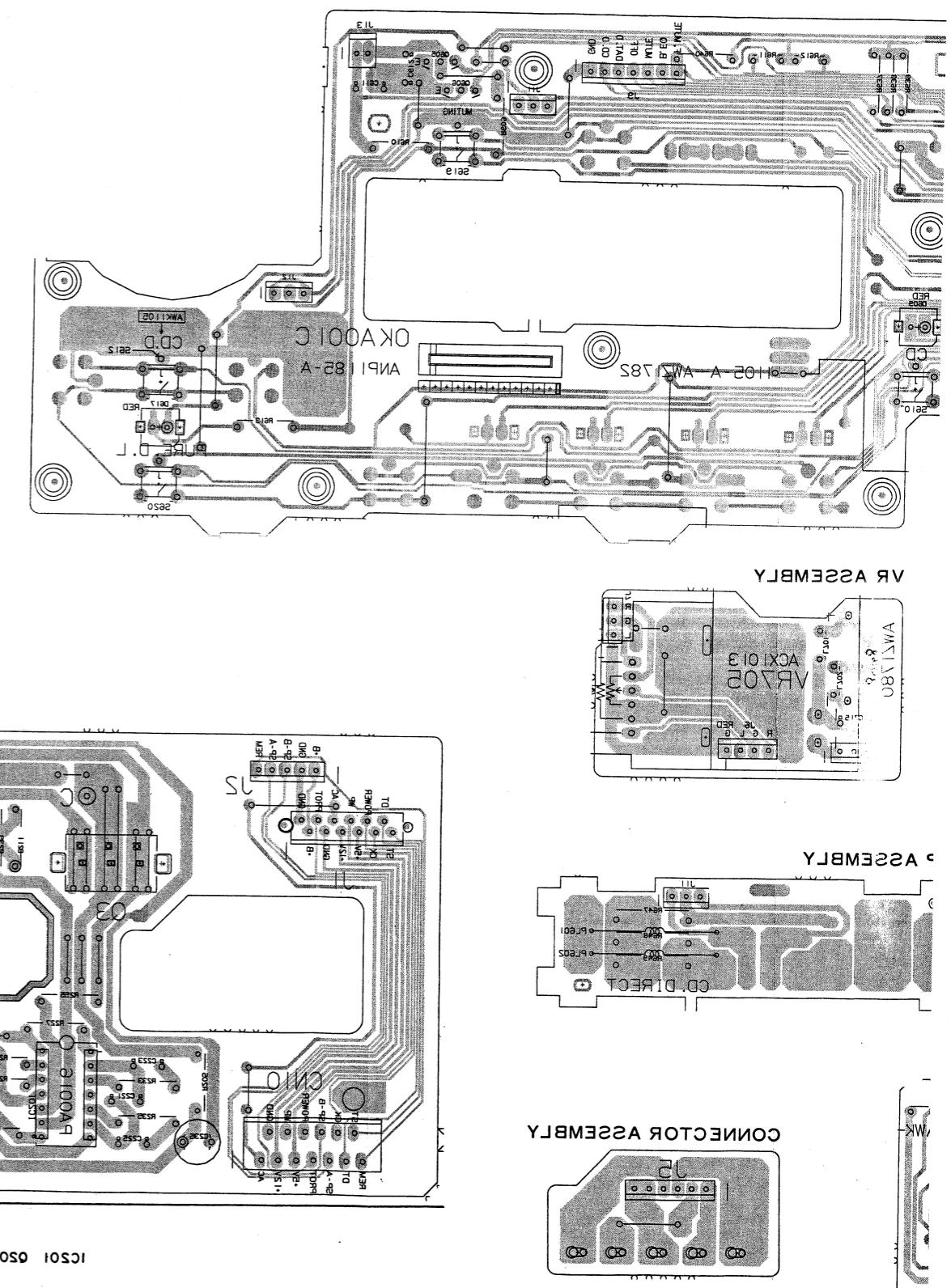
11



NOTE

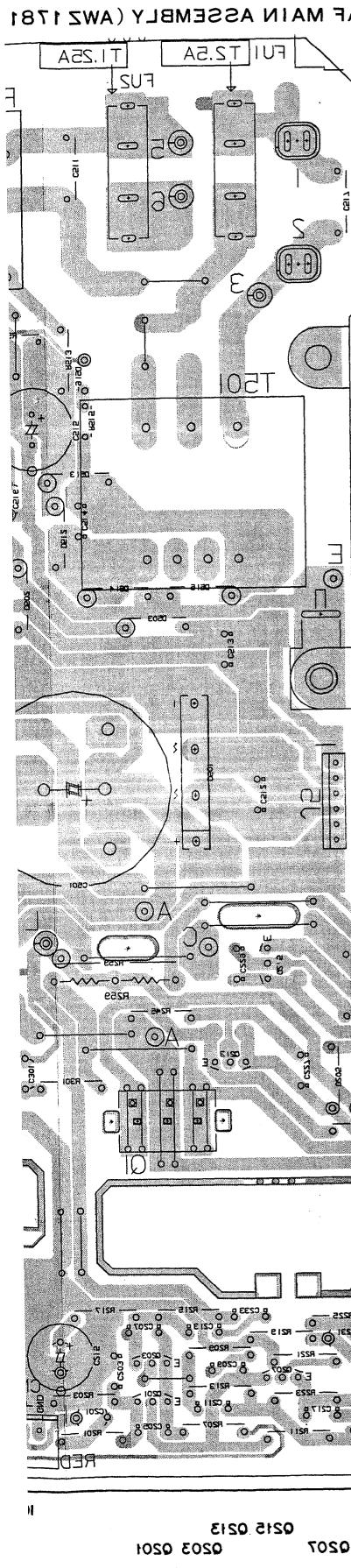
This picture shows the foil side of the printed circuit.

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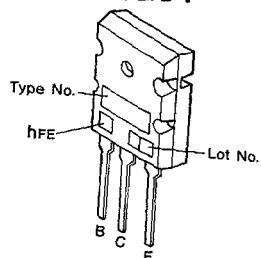
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6

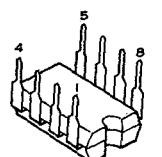


External Appearances of Transistor and ICs

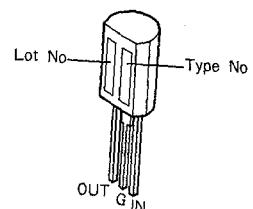
2SA1302
2SC3281



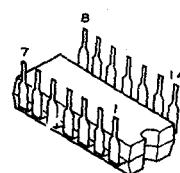
M5218P
M5218PF



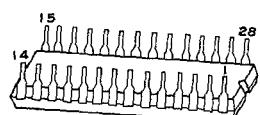
M5278L56



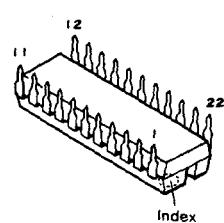
PA0016
LC4966



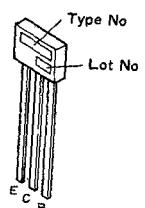
TC9163N
TC9164N



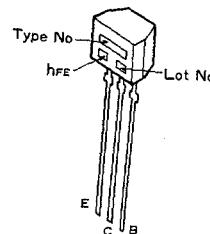
μ PD6362C



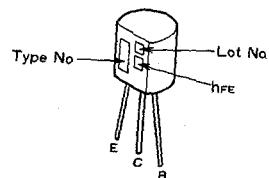
RN1201
RN2203
RN2201



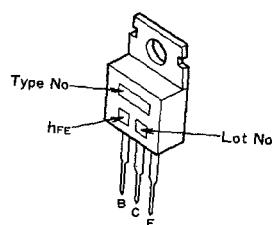
2SA1048
2SC2458



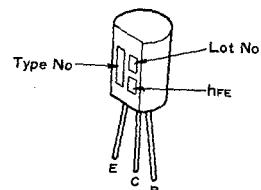
2SA1145
2SC2240
2SC2878
2SC2705



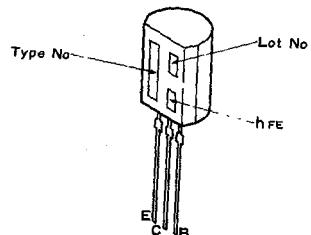
2SA968
2SD880
2SC2238



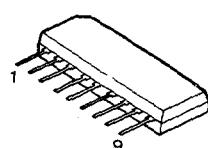
2SA992
2SC1845



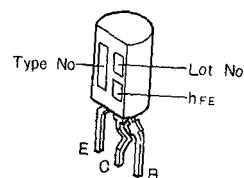
2SB560
2SD438



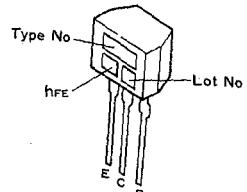
TA7291S



2SC2235
2SA965



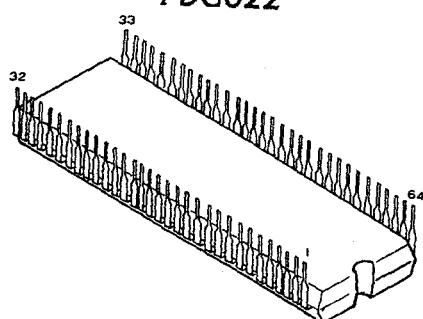
2SC1740SLN



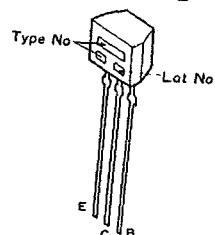
2SA1263N
2SC3180N
2SA1264N
2SC3181N



PDG022



DTA143ES
DTC143ES
DTA124ES



4. ELECTRICAL PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by “◎” are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.

★★ GENERALLY MOVES FASTER THAN ★

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	56 × 10 ¹	561.....	RD1/4PS 5 6 1 J
47kΩ	47 × 10 ³	473.....	RD1/4PS 4 7 3 J
0.5Ω	0R5.....		RN2H 0 5 K
1Ω	010.....		RS1P 0 1 0 K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	562 × 10 ¹	5621.....	RN1/4SR 5 6 2 1 F
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4.1 A-X540

Miscellaneous Parts List

P.C.BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
	AF main assembly	AWZ1770	★★	IC104	μPD6362C
	Control main assembly	AWZ1772	★★	Q308	RN1201
	SP assembly		★★	Q303	(DTC143ES)
	HEADPHONE assembly		★★	Q105,Q106	RN2203
	TONE assembly		★★	Q209,Q210	(DTA124ES)
	LAMP assembly		★★	Q215,Q216	2SA1048
	VR assembly				2SA1145
	LED assembly				2SA968

OTHERS

Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
★★	Q3,Q4 Transistor	2SA1302	★★	Q201-Q204	2SA992
★★	Q1,Q2 Transistor	2SC3281	★★	Q306,Q502	2SB560
△ ★	T1 Power transformer (220V/240V)	ATS1141	★★	Q207,Q208,Q301,Q302	2SC1845
△	Jumper plug	AKM1019	★★	Q213,Q214	2SC2238
△	AC socket (3P OUTLET)	AKP-502	★★	Q307,Q504	2SC2240
△★★	FU1,FU2 Fuse (T2.5A/250V)	AEK-403	★★	Q304,Q305	2SC2458
△	AC power cord	ADG1021	★★	Q211,Q212	2SC2705
	Remote control unit	AXD1053	★★	Q101-Q104	2SC2878
			★★	Q501	2SD438
			★★	Q503	2SD880
			★	D501	D5SB20F
			★	D207,D208	HZS5BLL
			★	D205,D206	HZS5CLL
			★	D305	RD13ESB
			★	D511	RD13ESB1
			★	D509,D510	RD16ESB3

AF main assembly (AWZ1770)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
★★	IC101	M5218P	★	D306	RD5.6ESB
★★	IC501	M5278L56	★	D502-D507,D512-D515	S5566 (11E2)
★★	IC201,IC202	PA0016	★	D201-D204,D209-D212,	1SS252
★★	IC103	TC9163N		D301-D304,D516,D517	
★★	IC102	TC9164N			

RELAY

Mark	Symbol & Description	Part No.
▲★★	RY501 Relay	ASR-516

TRANSFORMER

Mark	Symbol & Description	Part No.
▲★	T501 Power transformer	ATT1066

CAPACITORS

Mark	Symbol & Description	Part No.
▲	C511 Power capacitor (0.01/AC400V)	ACG1002
	C512,C513 Power capacitors (0.01/AC150V)	ACG1005
	C501,C502 (8200/71)	ACH1074
	C227-C230	CCCSL101K500
▲	C517 Power capacitor (0.01/AC400V)	ACG1003
	C217,C218	CCCSL150K500
	C213,C214,C233,C234	CCCSL220K500
	C103,C104,C107,C108,C203,	CKMYB221K50
	C204	
	C221,C222	CCCSL470J50
	C223-C226	CCCSL680J50
	C125,C205-C208	CCMSL101J50
	C301,C302	CEANP010M50
	C303	CEAS010M50
	C101,C102,C117,C118	CEAS100M25
	C305,C509,C516	CEAS101M25
	C515	CEAS102M25
	C503,C504	CEAS102M35
	C113,C114	CEAS2R2M50
	C105,C106,C115,C116,C510	CEAS470M25
	C304	CEAS471M6
	C235,C236	CEXA470M63
	C201,C202	CEYA100M25
	C215,C216,C231,C232,C505,	CEYA101M25
	C506	
	C507,C508	CEYA470M25
	C514	CKCYB103K50
	C209,C210	CKCYB182K50
	C211,C212	CKCYB471K50
	C119-C122,C124	CKCYF473Z50
	C123	CKCYX104M25
	C109,C110	CQMA222J50
	C111,C112	CQMA822J50
	C219,C220	CEYA101M16

RESISTORS

Mark	Symbol & Description	Part No.
	R259,R260 (0.33 x 2/5W)	ACN-139
	R201,R202,R215-R218	RDR1/4PM□□□J
▲	R205,R206,R516	RD1/4PMFL□□□J
	R247-R250,R307,R237-R240,	RD1/4PMF□□□J
	R301,R302,R253-R256	

Mark	Symbol & Description	Part No.
	R313,R303-R306,R315,R514, R515,R309,R133,R134,R314, R139-R144,R147-R149,R517 R505,R501,R503,R245,R246, R251,R252	RD1/8PM□□□J
▲	Other resistors	RFA1/4PS□□□J
		RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Pin jack (TAPE)	AKB1007
	4P Pin jack (DAT)	AKB1051
	2P Pin jack (PHONO)	AKB1052
	6P Pin jack (CD, TUNER, AUX)	AKB1053
	Transistor socket	AKH-017

Control main assembly (AWZ1772)**SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	IC601	PDG022
★★	IC602	TA7291S
★★	Q601,Q605,Q606,Q608	RN1201 (DTC143ES)
★★	Q609-Q611	RN2201 (DTA143ES)
★★	Q602,Q603	2SC2235
★★	Q607,Q612-Q614,Q604	2SC2458
★	D614-D616	AEL1053
★	D602-D613,D617,D622	AEL1072
★	D601	AEL1073
★	D635,D636	RD3.0ESB
★	D625	RD4.7ESB2
★	D618-D621,D623,D624, D626-D629,D631-D634, D637-D641	1SS252

SWITCHES

Mark	Symbol & Description	Part No.
★★	S601-S620 Tact switch (POWER, SP-A, SP-B, BASS EQ, AUX, TAPE, TUNER, PHONO, DAT, CD, DAT D, CD D, SOURCE, TUNER, DAT ▶ TAPE, TAPE ▶ DAT, OFF, CD D REC, MUTING, PURE.D.L)	ASG-711 (ASG-703)

CAPACITORS

Mark	Symbol & Description	Part No.
	C606 (47000 μ F/5.5V)	ACH1037
	C602	CEJAR22M50
	C609,C608	CEJA100M16
	C605	CEJA101M10

Mark	Symbol & Description	Part No.
	C610	CEJA4R7M50
	C603	CKDYB102K50
	C601,C604	CKDYF473Z50
	C607,C611,C612	CKDYX473M25

RESISTORS

Mark	Symbol & Description	Part No.
	R601—R604,R609,R613,R610	RD1/4PM□□□J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
★	X601 Ceramic resonator (4.19MHz)	ASS1022
	Remote control sensor unit	AXX1005

SP assembly

SEMICONDUCTERS

Mark	Symbol & Description	Part No.
★★	IC401	M5218PF
★★	Q401,Q402	2SC2235
★	D401—D403	1SS252

RELAIIES

Mark	Symbol & Description	Part No.
★★	RY401,RY402 Relay	ASR-112
★★	RY403 Relay	ASR1005

COILS

Mark	Symbol & Description	Part No.
	L401,L402 AF choke coil (0.7μF)	ATH1011

CAPACITORS

Mark	Symbol & Description	Part No.
	C401,C402,C405,C406	CEAS100M25
	C403,C404	CEAS470M25
	C407—C410	CFTXA823J50
	C411	CKCYF473Z50

RESISTORS

Mark	Symbol & Description	Part No.
△	R415,R416	RD1/4PMFL100J
△	R413,R414	RD1/4PMF100J
	R401—R404,R409,R410,R424	RD1/4PM□□□J
	R427,R429	RS2PMF681J
	R428,R430	RS2PMF821J
	R417,R418	RS2LMF331J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Pin jack (ADAPTOR)	AKB1033
	8P Speaker terminal (SPEAKERS)	AKE-111
	Mini jack (CONTROL)	AKN-207

HEADPHONE assembly

RESISTORS

Mark	Symbol & Description	Part No.
	R425,R426	RS1PMF122J

OTHERS

Mark	Symbol & Description	Part No.
	Headphone jack (PHONES)	AKN1002

TONE assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC702	LC4966
★★	IC701	M5218PF
★★	Q705	RN1201 (DTC143ES)
★★	Q706	RN2201 (DTA143ES)
★★	Q701—Q704	2SC1740SLN

CAPACITORS

Mark	Symbol & Description	Part No.
	C709,C710	CEASR33M50
	C703,C704	CEASR47M50
	C705,C706	CEASOR1M50
	C707,C708	CEAS010M50
	C711,C712	CEAS100M25
	C713,C714	CEAS470M25
	C717,C718	CKMYB151K50
	C701,C702	CQMA153K50

RESISTORS

Mark	Symbol & Description	Part No.
★	VR702,VR703 Variable resistor (30k × 2)	ACT1031
★	VR704 Variable resistor (10k × 2)	ACT1032
★	VR701 Variable resistor (5k × 2)	ACT1033
	R731,R732	RD1/4PM331J
	Other resistors	RD1/8PM□□□J

LAMP assembly**RESISTORS**

Mark	Symbol & Description	Part No.
R647,R650	RS1PMFR47J	
R648,R649,R651,R652	RS1PMF010J	

OTHERS

Mark	Symbol & Description	Part No.
★ PL601-PL604	Pilot lamp	AEL1050
	Lamp box	AMR1342

VR assembly**COILS**

Mark	Symbol & Description	Part No.
L701,L702	Axial inductor (5.6μH)	LAU5R6K

CAPACITORS

Mark	Symbol & Description	Part No.
C715,C716		CKCYF473Z50

RESISTOR

Mark	Symbol & Description	Part No.
★ VR705	Variable resistor (100k × 2)	ACX1012

LED assembly**SEMICONDUCTOR**

Mark	Symbol & Description	Part No.
★ D630	LED	AEL1071

4.2 A-X440**Miscellaneous Parts List****P.C.BOARD ASSEMBLIES**

Mark	Symbol & Description	Part No.
	AF main assembly	AWZ1777
	Control main assembly	AWZ1779
	SP assembly	
	HEADPHONE assembly	
	CONNECTOR assembly	

TONE assembly

LAMP assembly

VR assembly

LED assembly

OTHERS

Mark	Symbol & Description	Part No.
★ Q3,Q4	Transistor	2SA1264N
★ Q1,Q2	Transistor	2SC3181N

Mark	Symbol & Description	Part No.
△ ★	T1 Power transformer (220V/240V)	ATS1142
△	AC socket (3P OUTLET)	AKP-502
△★★	FU2 Fuse (T2A/250V)	AEK-017
△★★	FU1 Fuse (T2.5A/250V)	AEK-403
△	AC power cord	ADG1021
	Remote control unit	AXD1053

AF main assembly (AWZ1777)**SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	IC101	M5218P
★★	IC501	M5278L56
★★	IC201,IC202	PA0016
★★	IC103	TC9163N
★★	IC102	TC9164N
★★	IC104	μPD6362C
★★	Q308	RN1201 (DTC143ES)
★★	Q303	RN2203 (DTA124ES)
★★	Q105,Q106	2SA1048
★★	Q215,Q216	2SA965
★★	Q201-Q204,Q209, Q210	2SA992
★★	Q306,Q502	2SB560
★★	Q213,Q214	2SC2235
★★	Q207,Q208,Q211,Q212,Q301, Q302,Q307,Q504	2SC2240
★★	Q304,Q305	2SC2458
★★	Q101-Q104	2SC2878
★★	Q501	2SD438
★★	Q503	2SD880
★	D207,D208	HZS4BLL
★	D205,D206	HZS5BLL
★	D501	RBV402
★	D305	RD13ESB
★	D511	RD13ESB1
★	D509,D510	RD16ESB3
★	D306	RD5.6ESB
★	D502-D507,D512-D515	S5566 (11E2)
★	D201-D204,D209-D212, D301-D304,D516,D517	ISS252

RELAY

Mark	Symbol & Description	Part No.
△★★	RY501 Relay	ASR1012

TRANSFORMER

Mark	Symbol & Description	Part No.
△ ★	T501 Power transformer	ATT1066

CAPACITORS

Mark	Symbol & Description	Part No.
⚠	C511,C517 Power capacitors (0.01/AC400V)	ACG1002
	C512,C513 Power capacitors (0.01/AC150V)	ACG1005
	C501,C502 (5600/56)	ACH1031
	C227-C230	CCCSL101K500
	C217,C218	CCCSL150K500
	C213,C214,C233,C234	CCCSL220K500
	C103,C104,C107,C108,C203,C204	CKMYB221K50
	C221,C222	CCCSL470J50
	C223-C226	CCCSL680J50
	C125,C205-C208	CCMSL101J50
	C301,C302	CEANP010M50
	C303	CEAS010M50
	C101,C102,C117,C118	CEAS100M25
	C516,C219,C220,C231,C232	CEAS101M10
	C305,C505,C506,C509	CEAS101M25
	C515	CEAS102M25
	C503,C504	CEAS102M35
	C113,C114	CEAS2R2M50
	C105,C106,C115,C116,C507,C508,C510	CEAS470M25
	C304	CEAS471M6
	C235,C236	CEXA470M63
	C201,C202	CEYA100M25
	C215,C216	CEYA330M16
	C514	CKCYB103K50
	C209,C210	CKCYB182K50
	C109,C110	CKCYB222K50
	C211,C212	CKCYB471K50
	C111,C112	CKCYB822K50
	C119-C122,C124	CKCYF473Z50
	C123	CKCYX104M25

RESISTORS

Mark	Symbol & Description	Part No.
	R259,R260 (0.33 × 2/5W)	ACN-139
⚠	R201,R202	RDR1/4PM101J
	R205,R206,R516,R247-R250,R307,R237-R240,R301,R302,R253-R256	RD1/4PMF□□□J
	R313,R303-R306,R315,R514,R515,R309,R133,R134,R139-R144,R147-R149,R314,R517	RD1/8PM□□□J
⚠	R505,R501,R503,R245,R246,R251,R252	RFA1/4PS□□□J
	Other resistors	RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Pin jack (DAT, TAPE)	AKB1007
	6P Pin jack (CD, TUNER, AUX)	AKB1024
	2P Pin jack (PHONO)	AKB1039

Control main assembly (AWZ1779)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC601	PDG022
★★	IC602	TA7291S
★★	Q601,Q605,Q606,Q608	RN1201 (DTC143ES)
★★	Q610	RN2201 (DTA143ES)
★★	Q602,Q603	2SC2235
★★	Q607	2SC2458
★	D614-D616	AEL1053
★	D602-D609,D617,D622	AEL1072
★	D601	AEL1073
★	D635,D636	RD3.0ESB
★	D625	RD4.7ESB2
★	D618-D620,D623,D624,D632,D638-D641	ISS252

SWITCHES

Mark	Symbol & Description	Part No.
★★	S601-S612,S618-S620 Tact switch (POWER, SP-A, SP-B, BASS EQ, AUX, TAPE, TUNER, PHONO, DAT, CD, DAT.D, CD.D, CD.D REC, MUTING, PURE.D.L)	ASG-711 (ASG-703)

CAPACITORS

Mark	Symbol & Description	Part No.
	C606 (47000 μ F/5.5V)	ACH1070
	C602	CEJAR22M50
	C608	CEJA100M16
	C605	CEJA101M10
	C603	CKDYB102K50
	C601,C604	CKDYF473Z50
	C607,C611,C612	CKDYX473M25

RESISTORS

Mark	Symbol & Description	Part No.
	R601-R603,R609,R610,R613 Other resistors	RD1/4PM□□□J
		RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
★	X601 Ceramic resonator (4.19MHz)	ASS1022
	Remote control sencer unit	AXX1005

SP assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC401	M5218PF
★★	Q401, Q402	2SC2240
★	D401-D403	1SS252

RELAYS

Mark	Symbol & Description	Part No.
★★	RY401, RY402, RY403 Relay	ASR1005

COILS

Mark	Symbol & Description	Part No.
	L401, L402 AF choke coil (0.7μH)	ATH1004

CAPACITORS

Mark	Symbol & Description	Part No.
	C401, C402, C405, C406	CEAS100M25
	C403, C404	CEAS470M25
	C411	CKCYF473Z50
	C407-C410	CFTXA823K50

RESISTORS

Mark	Symbol & Description	Part No.
△	R415, R416	RD1/4PMFL100J
△	R413, R414	RD1/4PMF100J
	R401-R404, R409, R410, R424	RD1/4PM□□□J
	R417, R418	RS1LMF□□□J
	R427, R429	RS2PMF471J
	R428, R430	RS2PMF681J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Pin jack (ADAPTOR)	AKB1033
	8P Speaker terminal (SPEAKERS)	AKE-111
	Mini jack (CONTROL)	AKN-207

HEADPHONE assembly

OTHER

Mark	Symbol & Description	Part No.
	Headphone jack (PHONES)	AKN1002

CONNECTOR assembly

No parts are supplied with the CONNECTOR assembly.

LAMP assembly

Refer to A-X540.

VR assembly

COILS

Mark	Symbol & Description	Part No.
	L701, L702 Axial inductor (5.6μH)	LAU5R6K

CAPACITORS

Mark	Symbol & Description	Part No.
	C715, C716	CKCYF473Z50

RESISTOR

Mark	Symbol & Description	Part No.
★	VR705 Variable resistor (100k × 2)	ACX1013

LED assembly

Refer to A-X540.

4.3 A-X340

Miscellaneous Parts List

P.C.BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.
	AF main assembly	AWZ1781
	Control main assembly	AWZ1782
	SP assembly	
	HEADPHONE assembly	
	CONNECTOR assembly	

TONE assembly

LAMP assembly

VR assembly

LED assembly

OTHERS

Mark	Symbol & Description	Part No.
★★	Q3, Q4 Transistor	2SA1263N
★★	Q1, Q2 Transistor	2SC3180N
△ ★	T1 Power transformer (220V/240V)	ATS1143
△	AC socket (3P OUTLET)	AKP-502
△★★	FU2 Fuse (T1.25A/250V)	AEK-018
△★★	FU1 Fuse (T2.5A/250V)	AEK-403
△	AC Power cord Remote control unit	ADG-063 AXD1052

TONE assembly

Refer to A-X540.

AF main assembly (AWZ1781)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC101	M5218P
★★	IC501	M5278L56
★★	IC201,IC202	PA0016
★★	IC102	TC9164N
★★	IC104	μPD6362C
★★	Q308	RN1201 (DTC143ES)
★★	Q303	RN2203 (DTA124ES)
★★	Q105,Q106	2SA1048
★★	Q215,Q216	2SA965
★★	Q201,Q202,Q203,Q204,Q209, Q210	2SA992
★★	Q306,Q502	2SB560
★★	Q213,Q214	2SC2235
★★	Q207,Q208,Q211,Q212,Q301, Q302,Q307,Q504	2SC2240
★★	Q304,Q305	2SC2458
★★	Q101-Q104	2SC2878
★★	Q501	2SD438
★★	Q503	2SD880
★	D207,D208	HZS4BLL
★	D205,D206	HZS5BLL
★	D501	RBV402
★	D305	RD13ESB
★	D511	RD13ESB1
★	D509,D510	RD16ESB3
★	D306	RD5.6ESB
★	D502-D507,D512-D515	S5566 (11E2)
★	D201-D204,D209-D212, D301-D304,D516,D517	1SS252

RELAY

Mark	Symbol & Description	Part No.
▲★★	RY501 Relay	ASR1012

TRANSFORMER

Mark	Symbol & Description	Part No.
▲★	T501 Power transformer	ATT1066

CAPACITORS

Mark	Symbol & Description	Part No.
▲	C511,C517 Power capacitors (0.01/AC400V)	ACG1002
	C512,C513 Power capacitors (0.01/AC150V)	ACG1005
	C501,C502 (4700/50)	ACH-252
	C227-C230	CCCSL101K500
	C217,C218	CCCSL150K500
	C213,C214,C233,C234	CCCSL220K500
	C103,C104,C107,C108,C203, C204	CKMYB221K50

Mark	Symbol & Description	Part No.
	C221,C222	CCCSL470J50
	C223-C226	CCCSL680J50
	C125,C205-C208	CCMSL101J50
	C301,C302	CEANP010M50
	C303	CEAS010M50
	C101,C102,C117,C118	CEAS100M25
	C516,C219,C220,C231,C232	CEAS101M10
	C505,C506,C509,C305	CEAS101M25
	C235,C236	CEAS101M50
	C515	CEAS102M25
	C503,C504	CEAS102M35
	C113,C114	CEAS2R2M50
	C105,C106,C115,C116,C507, C508,C510	CEAS470M25
	C304	CEAS471M6
	C215,C216	CEYA220M16
	C201,C202	CEYA100M25
	C514	CKCYB103K50
	C209,C210	CKCYB182K50
	C109,C110	CKCYB222K50
	C211,C212	CKCYB471K50
	C111,C112	CKCYB822K50
	C119,C120,C124	CKCYF473Z50
	C123	CKCYX104M25

RESISTORS

Mark	Symbol & Description	Part No.
	R259,R260 (0.33 x 2/5W)	ACN-139
▲	R205,R206,R516	RD1/4PMFL□□□J
▲	R307,R237-R240,R301,R302, R253-R256,R247-R250	RD1/4PMF□□□J
	R313,R303-R306,R514,R515, R309,R133,R134,R139-R144, R147-R149,R314,R517,R315	RD1/8PM□□□J
▲	R505,R501,R503,R245,R246, R251,R252	RFA1/4PS□□□J
	Other resistors	RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Pin jack (TAPE, DAT)	AKB1007
	6P Pin jack (CD, TUNER, AUX)	AKB1024
	2P Pin jack (PHONO)	AKB1039

Control main assembly (AWZ1782)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC601	PDG022
★★	IC602	TA7291S

Mark	Symbol & Description	Part No.
★★	Q601,Q605,Q606,Q608	RN1201 (DTC143ES)
★★	Q610	RN2201 (DTA143ES)
★★	Q602	2SC2235
★★	Q607	2SC2458
★	D602,D604,D605-D609,D617, D622	AEL1072
★	D601	AEL1073
★	D635,D636	RD3.0ESB
★	D625	RD4.7ESB2
★	D618-D620,D623,D624,D632, D638-D641	1SS252

SWITCHES

Mark	Symbol & Description	Part No.
★★	S601-S610,S612,S619,S620 Tact switch (POWER, SP-A, SP-B, BASS EQ, AUX, TAPE, TUNER, PHONO, DAT, CD, DAT.D, CD.D, CD.D REC, MUTING, PURE.D.L)	ASG-711 (ASG-703)

CAPACITORS

Mark	Symbol & Description	Part No.
	C606 (47000 μ F/5.5V)	ACH1070
	C602	CEJAR22M50
	C608	CEJA100M16
	C605	CEJA101M10
	C603	CKDYB102K50
	C601,C604	CKDYF473Z50
	C607,C611,C612	CKDYZ473M25

RESISTORS

Mark	Symbol & Description	Part No.
	R601-R603,R609,R610,R613	RD1/4PM□□□J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
★	X601 Ceramic resonator (4.19MHz)	ASS1022
	Remote control sensor unit	AXX1005

SP assembly**SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	IC401	M5218PF
★★	Q401	2SC2240
★	D401,D403	1SS252

RELAIES

Mark	Symbol & Description	Part No.
★★	RY401,RY403 Relay	ASR1005

COILS

Mark	Symbol & Description	Part No.
	L401,L402 AF choke coil (0.7 μ F)	ATH1004

CAPACITORS

Mark	Symbol & Description	Part No.
	C401,C402,C405,C406	CEAS100M25
	C403,C404	CEAS470M25
	C411	CKCYF473Z50
	C407-C410	CQMA823K50

RESISTORS

Mark	Symbol & Description	Part No.
▲	R415,R416	RD1/4PMFL100J
▲	R413,R414	RD1/4PMF100J
	R401-R404,R409,R410,R424	RD1/4PM□□□J
	R417,R418	RS1LMF□□□J
	R427,R429	RS2PMF391J
	R428,R430	RS2PMF471J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Pin jack (ADAPTOR)	AKB1033
	4P Speaker terminal (SPEAKERS)	AKE-109
	Mini jack (CONTROL)	AKN-207

HEADPHONE assembly

Refer to A-X440.

CONNECTOR assembly

Refer to A-X440.

TONE assembly**SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	IC702	LC4966
★★	IC701	M5218PF
★★	Q705	RN1201 (DTC143ES)
★★	Q706	RN2201 (DTA143ES)
★★	Q701-Q704	2SC1740SLN

CAPACITORS

Mark	Symbol & Description	Part No.
	C709,C710	CEASR33M50

6. IC INFORMATION

MICRO COMPUTER (PDG022)

Terminal No.	Terminal name	I/O	Condition	Terminal status	Remarks															
1	WP	I	Power supply "ON"	U	If the input frequency is not 50/60Hz the mode will be switched to backup mode.															
2	PA0	O	For A-X540, when control is performed.	U	Key matrix output															
3	PA1																			
4	PA2																			
5	PA3																			
6	PB0	O																		
7	PB1	O			Non used															
8	PB2																			
9	PB3																			
10	PE0																			
11	SP-A	O	SP selector...SP-A	L	SP-A IND illuminates															
12	SP-B	O	SP selector...SP-B	L	SP-B IND illuminates															
13	B-EQ	O	BASS EQ "ON"	H	BASS EQ IND illuminates															
14	AUX	O	When FUNCTION SEL. set at each position.	L	AUX IND illuminates															
15	TAPE	O		L	TAPE IND illuminates															
16	TUNER	O		L	TUNER IND illuminates															
17	PHONO	O		L	PHONO IND illuminates															
18	DAT	O		L	DAT IND illuminates															
19	CD	O		L	CD IND illuminates															
20	PC2	O	Non used															
21	PC3	O																		
22	DAT.D	O	DAT DIRECT "ON"	H	DAT DIRECT IND illuminates															
23	CD.D	O	CD DIRECT "ON"	H	CD DIRECT IND illuminates															
24	UP	O	VOLUME CONTROL UP/DOWN		<table border="1"> <tr> <td>MODE</td><td>Terminal No.</td><td>24</td><td>25</td><td></td></tr> <tr> <td>VOL.UP</td><td></td><td>H</td><td>L</td><td></td></tr> <tr> <td>VOL.DOWN</td><td></td><td>L</td><td>H</td><td></td></tr> </table>	MODE	Terminal No.	24	25		VOL.UP		H	L		VOL.DOWN		L	H	
MODE	Terminal No.	24	25																	
VOL.UP		H	L																	
VOL.DOWN		L	H																	
25	DOWN	O																		
26	SOURCE	O	When REC SEL. set at each position.	L	SURCE IND illuminates															
27	TUNER	O		L	TUNER IND illuminates															
28	DAT→T	O		L	DAT→T IND illuminates															

Terminal No.	Terminal name	I/O	Condition	Terminal status	Remarks
29	TAPE→D	O	When REC SEL. set at each position.	L	TAPE→D IND. illuminates
30	CD.D.REC	O	CD DIRECT REC "ON"	L	CD DIRECT IND illuminates
31	NC	...	.....	.....
32	V _{ss}		GND		
33	MUT IND	O	MUTING "ON"	H	Red IND illuminates
34	VR IND	O	Power supply "ON"	H	Yellow IND illuminates
35	PURE DIRECT	O	LINE DIRECT	L	
36	XTAL	O	Connect Crystal resonator (4.19MHz)	|||||||	CLOCK oscillating terminal (For A-X540, oscillation is made if necessary.)
37	EXTAL	I			
38	RESET	I	When inputting RESET pulse	—	
39	PX ₀ /SC	I	.....		GND.
40	PX ₁ /SOB	I	Model Teraminal NO.	A-X540 A-X440 A-X340	By arranging the terminal levels of Pins 40 and 41 as shown in the table, the program can be adjusted to the each models.
41	PX ₂ /SOA	I	40 41	H L H L	
42	PX ₃ /SI	I	.....	.....	GND
43	F·MUTE	O	When switching over FUNCTION, CD or DAT DIRECT. During —∞ MUTING	— H	Prevents click noise
44	B.EQ CONT.	O	BASS EQ "ON"	H	Activates BASS EQ circuit
45	PY ₂ /WP	I	The IC601 (PDG022) is a "SUPERSILENT" micro computer which oscillates the CLOCK only when necessary (only A-X540). Therefore, this terminal will oscillate the CLOCK when the respective button on the front panel is pressed or when CLOCK oscillation is required. If, for example, a "H" signal is input when pressing the button, the terminal oscillates CLOCK and will determine the function. After the necessary actions, it stops CLOCK again and enters the STOP mode.		
46	REM IN	I		—	
47	ST-BY	O	Power supply "ON"	H	Relay (RY501) "ON"
48	PROTECTION	O	Power supply "ON" (7 seconds after power Supply ON.)	H (L)	Controls relay for SP (RY401 and RY402) and relay for HP (RY403).
49	SP-B	O	SP SELECTOR "SP-B"	H	Controls relay for SP-B (RY402).
50	SP-A	O	SP SELECTOR "SP-A"	H	Controls relay for SP-A (RY401).
51	PMO	O	.....	.....	Non used
52	MUTING	O	During MUTING (-20dB)	H	ON/OFF of -20dB MUTING.
53	D.OFF	O	LINE DIRECT "OFF"	L	

Terminal No.	Terminal name	I/O	Condition	Terminal status	Remarks
54	DAT.D	O	DAT DIRECT "ON"	L	
55	CD.D	O	CD DIRECT "ON"	L	
56	CK				
57	DATA	O	When FUNCTION was changed.		For controlling FUNCTION.
58	ST				
59	ST-BY IND	O	During STAND-BY.	L	STAND-BY IND illuminates
60	PJ ₀	I	For A-X540, when the control action is performed.		Key matrix input
61	PJ ₁				
62	PJ ₂				
63	PJ ₃				
64	V _{DD}	...	.....		+5V Power supply terminal

7. SPECIFICATIONS

A-X540

Amplifier Section

DIN continuous power output (both channels driven)	
1 kHz, 1%, 8Ω	100W + 100W
DIN music power (both channels driven)	
1 kHz, 1%, 8Ω	160W + 160W
Continuous power output (both channel driven)	
20 Hz to 20 kHz, T.H.D 0.3%, 8Ω	85W + 85W
IEC Continuous power output (both channel driven)	
63 Hz to 12.5 kHz, T.H.D 0.7%, 8Ω	95W + 95W
Total harmonic distortion *	
1 kHz, 50W, 8Ω	0.005%*
Input (sensitivity/impedance)	
PHONO	2.5 mV/50 kΩ
TUNER, CD, AUX, TAPE PLAY, DAT PLAY,	
ADAPTOR	150 mV/50 kΩ
Overload level	
PHONO 1 kHz, 0.1%	150 mV
Output level	
TAPE REC, DAT REC, ADAPTOR OUT	150 mV
Frequency Response	
PHONO	20 Hz to 20 kHz ± 0.5 dB
TUNER, CD, AUX, TAPE PLAY, DAT PLAY, ADAPTOR	
CD (CD DIRECT ON)	10 Hz to 100 kHz +1 dB -3 dB
Tone Control	
BASS	±8 dB (100 Hz)
TREBLE	±8 dB (10 kHz)
BASS EQUALIZER	(MAX) +10 dB (60 Hz)
MUTING	-20 dB/-∞
Signal-to-Noise ratio (IHF short circuited, A network)	
PHONO	72 dB
CD (CD DIRECT ON)	102 dB
Signal-to-Noise ratio (DIN, continuous power/50 mW)	
PHONO	68 dB/60 dB
CD (CD DIRECT ON)	82 dB/62 dB
TUNER, CD, AUX, TAPE PLAY, DAT PLAY,	
ADAPTOR	82 dB/62 dB

Power Supply/Miscellaneous

Power requirements

European model	AC220 V-, 50/60 Hz
U.K. model	AC240 V-, 50/60 Hz
Other destination models	- AC 110 V/120-127 V/ 220 V/240 V (switchable), 50/60 Hz

Power consumption

European model	480W
U.K. model	480W

AC outlets

U.K. model	
switched (x 3)	100W

Other destination models	
switched (x 2)	100W
Unswitched (x 1)	100W

Dimensions	360 (W) x 349 (D) x 115 (H) mm
	14-1/8 (W) x 13-3/4 (D) x 4-1/2 (H) in

Weight	8.5 kg (18 lb 13 oz)
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Accessories

Remote control unit	1
Batteries AAA/R03	2
Operating instructions	1

* Specifications and design subject to possible modification without notice due to improvements.

* Measured by Audio Spectrum Analyzer.

A-X440, A-X340

A-X440

Amplifier Section

DIN continuous power output (both channels driven)	
1 kHz, 1%, 8 Ω.....	65 W + 65 W
DIN music power (both channels driven)	
1 kHz, 1%, 8 Ω.....	120 W + 120 W
Continuous power output (both channels driven)	
20 Hz to 20 kHz, T.H.D 0.3%, 8 Ω.....	55 W + 55 W
IEC continuous power output (both channels driven)	
63 Hz to 12.5 kHz, T.H.D 0.7%, 8 Ω.....	60 W + 60 W
Total harmonic distortion	
1 kHz, 35 W, 8 Ω.....	0.005% *
Input (sensitivity/impedance)	
PHONO.....	2.5 mV/50 kΩ
TUNER, CD, AUX, TAPE PLAY, DAT PLAY, ADAPTOR	
.....	150 mV/50 kΩ
Overload level	
PHONO 1 kHz, 0.1%.....	150 mV
Output (level/impedance)	
TAPE REC, DAT REC, ADAPTOR OUT.....	150 mV
Frequency Response	
PHONO.....	20 Hz to 20 kHz ±0.5 dB
TUNER, CD, AUX, TAPE PLAY, DAT PLAY, ADAPTOR	
.....	10 Hz to 70 kHz ± ¹ ₃ dB
CD (CD DIRECT ON).....	10 Hz to 100 kHz ± ¹ ₃ dB
Tone Control	
BASS.....	±8 dB (100 Hz)
TREBLE.....	±8 dB (10 kHz)
BASS EQUALIZER.....	+10 dB (60 Hz)
MUTING.....	-20 dB/-∞
Signal-to-Noise ratio (IHF short circuited, A network)	
PHONO.....	72 dB
CD (CD DIRECT ON).....	100 dB
Signal-to-Noise ratio (DIN, continuous power/50 mW)	
PHONO.....	68 dB/60 dB
TUNER, CD, AUX, TAPE PLAY, DAT PLAY, ADAPTOR	
.....	82 dB/62 dB
CD (CD DIRECT ON).....	82 dB/62 dB

Power Supply/Miscellaneous

Power requirements	
U.K., Australian models.....	~ AC 240 V, 50/60 Hz
Other destination models.....	~ AC 110 V/120 ~ 127 V/ 220 V/240 V (switchable), 50/60 Hz
Power consumption	
Other destination models.....	390 W
U.K., Australian models.....	390 W
AC outlets	
U.K. model	
Switched (X 3).....	100 W
Other destination models	
Switched (X 2).....	100 W
Unswitched (X 1).....	100 W
Dimensions	360 (W) × 346 (D) × 115 (H) mm
	14-3/16 (W) × 13-5/8 (D) × 4-9/16 (H) in
Weight	6.6 kg (14 lb 9 oz)

Accessories

Operating instructions	1
Remote control unit.....	1
Batteries (AAA/R03).....	2

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A-X340

Amplifier Section

DIN continuous power output (both channels driven)	
1 kHz, 1%, 8 Ω.....	45 W + 45 W
DIN music power (both channels driven)	
1 kHz, 1%, 8 Ω.....	85 W + 85 W
Continuous power output (both channels driven)	
20 Hz to 20 kHz, T.H.D 0.5%, 8 Ω.....	30 W + 30 W
IEC continuous power output (both channels driven)	
63 Hz to 12.5 kHz, T.H.D 0.7%, 8 Ω.....	40 W + 40 W
Total harmonic distortion	
1 kHz, 25 W, 8 Ω	0.005% *
Input (sensitivity/impedance)	
PHONO.....	2.5 mV/50 kΩ
TUNER, CD, AUX, TAPE PLAY, ADAPTOR	
.....	150 mV/50 kΩ
Overload level	
PHONO 1 kHz, 0.1%	150 mV
Output	
TAPE REC, ADAPTOR OUT	150 mV
Frequency Response	
PHONO.....	20 Hz to 20 kHz ±0.5 dB
TUNER, CD, AUX, TAPE PLAY, ADAPTOR	
.....	10 Hz to 100 kHz ± ¹ ₃ dB
CD (CD DIRECT ON).....	10 Hz to 100 kHz ± ¹ ₃ dB
Tone Control	
BASS	±8 dB (100 Hz)
TREBLE	±8 dB (10 kHz)
BASS EQUALIZER	+8 dB (60 Hz)
MUTING	-20 dB/-∞
Signal-to-Noise ratio (IHF short circuited, A network)	
PHONO.....	72 dB
CD (CD DIRECT ON).....	100 dB
Signal-to-Noise ratio (DIN, continuous power/50 mW)	
PHONO.....	68 dB/60 dB
TUNER, CD, AUX, TAPE PLAY, ADAPTOR	82 dB/62 dB
CD (CD DIRECT ON).....	82 dB/62 dB

Power Supply/Miscellaneous

Power requirements	
European model.....	~ AC 220 V, 50/60 Hz
U.K., Australian models.....	~ AC 240 V, 50/60 Hz
Power consumption	
European model.....	250 W
U.K., Australian models.....	250 W
AC outlets	
Switched (X 3)	100 W
Dimensions	360 (W) × 346 (D) × 115 (H) mm
Weight	5.9 kg

Accessories

Operating instructions	1
Remote control unit.....	1
Batteries (AAA/R03)	2

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